FIGURE 1A

1	TGGAAGGGTT	AATTTACTCC	AAGAAAAGGC	AAGAAATCCT	ТСАТТТСТСС	СПСТАТСАСА
61	CACAAGGCTT	CTTCCCTGAT	TGGCAAAACT	ACACACCGGG	GCCAGGGGTC	ACDTATCCAC
121	TGACCTTTGG	ATGGTGCTAC	AAGCTAGTGC	CAGTTGACCC	AGGGGAGGTG	CARCACCCCA
181	ACGGAGGAGA	AGACAACTGT	TTGCTACACC	CTATCACCCA	ACAMCCACCA	CACCAMONAC
241	ATAGAGAAGT	ATTAAAGTGG	AAGTTTGACA	CCCTCCTACCA	ACAIGGAGCA	AMOCCOCCOC
301	AGCTACATCC	GCDCTDTTDC	AAAGACTGCT	CACACACAA	ACGCAGACAC	ATGGCCCGCG
361	TCCACTGGGG	CCTTCCCCCA	GGTGTGGTCT	CCCCCCCCAAG	GGACTTTCCG	CCTGGGACTT
421	A TICCHCT GGGG	TANCON COMO	COMMONGCCCOM	GGGCGGGACT	TGGGAGTGGT	CAACCCTCAG
401	CACCCTCCCA	CCCCBCBCCC	CTTTTCGCCT	GTACTGGGTC	TCTCTCGGTA	GACCAGATCT
E / 1	CUMCY CUCCU	MMA A CMA CMC	TATCTAGGGA	ACCCACTGCT	TAAGCCTCAA	TAAAGCTTGC
. 541	MCACACCCMM	MCMCCM's CMC	TGTGCCCATC	TGTTGTGTGA	CTCTGGTAAC	TAGAGATCCC
661	A CMCA A A CMC	AGRAGIAGIA	TGGAAAATCT	CTAGCAGTGG	CGCCCGAACA	GGGACCAGAA
201	AGTGAAAGTG	AGACCAGAGG	AGATCTCTCG	ACGCAGGACT	CGGCTTGCTG	AAGTGCACAC
721	GGCAAGAGGC	GAGAGGGGCG	GCTGGTGAGT	ACGCCAATTT	TACTTGACTA	GCGGAGGCTA
18T	GAAGGAGAGA	GATGGGTGCG	AGAGCGTCAA	TATTAAGCGG	CGGAAAATTA	GATAAATGGG
841	AAAGAATTAG	GTTAAGGCCA	GGGGGAAAGA	AACATTATAT	GTTAAAACAT	CTAGTATGGG
90T	CAAGCAGGGA	GCTGGAAAGA	TTTGCACTTA	ACCCTGGCCT	GTTAGAAACA	TCAGAAGGCT
961	GTAAACAAAT	AATAAAACAG	CTACAACCAG	CTCTTCAGAC	AGGAACAGAG	GAACTTAGAT
1021	CATTATTCAA	CACAGTAGCA	ACTCTCTATT	GTGTACATAA	AGGGATAGAG	GTACGAGACA
1081	CCAAGGAAGC	CTTAGACAAG	ATAGAGGAAG	AACAAAACAA	ATGTCAGCAA	AAAGCACAAC
1141	AGGCAAAAGC	AGCTGACGAA	AAGGTCAGTC	AAAATTATCC	TATAGTACAG	AATGCCCAAG
1201	GGCAAATGGT	ACACCAAGCT	ATATCACCTA	GAACATTGAA	TGCATGGATA	AAAGTAATAG
1261	AGGAAAAGGC	TTTCAATCCA	GAGGAAATAC	CCATGTTTAC	AGCATTATCA	GAAGGAGCCA
1321	CCCCACAAGA	TTTAAACACA	ATGTTAAATA	CAGTGGGGGG	ACATCAAGCA	GCCATGCAAA
1381	TGTTAAAAGA	TACCATCAAT	GAGGAGGCTG	CAGAATGGGA	TAGGACACAT	CCAGTACATG
1441	CAGGGCCTGT	TGCAÇCAGGC	CAGATGAGAG	AACCAAGGĠG	AAGTGACATA	GCAGGAACTA
1501	CTAGTACCCT	TCAGGAACAA	ATAGCATGGA	TGACAAGTAA	TCCACCTATT	CCAGTAGAAG
1561	ACATCTATAA	AAGATGGATA	ATTCTGGGGT	TAAATAAAAT	AGTAAGAATG	TATAGCCCTG
1621	TTAGCATTTT	GGACATAAAA	CAAGGGCCAA	AAGAACCCTT	TAGAGACTAT	GTAGACCGGT
1681	TCTTTAAAAC	CTTAAGAGCT	GAACAAGCTA	CACAAGATGT	AAAGAATTGG	ATGACAGACA
1741	CCTTGTTGGT	CCAAAATGCG	AACCCAGATT	GTAAGACCAT	TTTAAGAGCA	TTAGGACCAG
1801	GGGCCTCATT	AGAAGAAATG	ATGACAGCAT	GTCAGGGAGT	GGGAGGACCT	AGCCATAAAG
1861	CAAGAGTGTT	GGCTGAGGCA	ATGAGCCAAG	CAAACAGTAA	CATACTAGTG	CAGAGAAGCA
1921	ATTTTAAAGG	CTCTAACAGA	ATTATTAAAT	GTTTCAACTG	TGGCAAAGTA	GGGCACATAG
1981	CCAGAAATTG	CAGGGCCCCT	AGGAAAAAGG	GCTGTTGGAA	ATGTGGACAG	GAAGGACACC
2041	AAATGAAAGA	CTGTACTGAG	AGGCAGGCTA	ATTTTTTAGG	GAAAATTTGG	CCTTCCCACA
2101	AGGGGAGGCC	AGGGAATTTC	CTCCAGAACA	GACCAGAGCC	AACAGCCCCA	CCAGCAGAAC
2161	CAACAGCCCC	ACCAGCAGAG	AGCTTCAGGT	TCGAGGAGAC	AACCCCCGTG	CCGAGGAAGG
2221	AGAAAGAGAG	GGAACCTTTA	ACTTCCCTCA	AATCACTCTT	TGGCAGCGAC	СССТТСТСТС
2281	AATAAAAGTA	GAGGGCCAGA	TAAAGGAGGC	TCTCTTAGAC	ACAGGAGCAG	ልጥርልጥል ሮልርጥ
2341	ATTAGAAGAA	ATAGATTTGC	CAGGGAAATG	GAAACCAAAA	ATGATAGGGG	GAATTGGAGG
2401	TTTTATCAAA	GTAAGACAGT	ATGATCAAAT	ACTTATAGAA	ATTTGTGGAA	AAAAGGCTAT
2461	AGGTACAGTA	TTAGTAGGGC	CTACACCAGT	CAACATAATT	GGAAGAAATC	TGTTAACTCA
2521	GCTTGGATGC	ACACTAAATT	TTCCAATTAG	ТССТАТТСАА	ACTGTACCAG	ממתיים מממי
2581	ACCAGGAATG	GATGGCCCAA	AGGTCAAACA	ATGGCCATTG	ACAGAAGAAA	TOUGHT TOUGH
2641	ATTAACAGCA	ATTTGTGAGG	AAATGGAGAA	GGDAGGAAAA	Δησηροληληλη	THECCCOMC
2701	TAATCCATAT	AACACTCCAG	TATTTGCCAT	AAAAAAGAAG	CACACHACHA	ACTICCACAAA
2761	ATTAGTAGAT	TTCAGGGAAC	TCAATAAAAG	A D C T C N N C N C	THUMBURGED A TO	WINCA A MILE OC
2821	AATACCACAC	CCAGCAGGAM	TAAAAAAGAA	A A A MICA CITIC	TITIGGGWWG	AMCHGGGGG
2881	ТССАТАТТТ	TCACTTCCTOM	TAGATGAAAG	CHMCX CCX X X	TANDACTOUTAG	MONGOCOCC
2941	ТАСТАТАТА	PAMCANACAC	TUGUTGWAMG	OTICHGGWWW	TATACTGCAT	TCACCATACC
3001	CANACCAMON	CCV CCV V W W W	CAGGGATTAG	CAMORGATAT	AATGTGCTGC	CACAGGGATG
3061	A D T A D T M C C A C A	CACAMACEM*	TCCAGAGTAG	CATGACAAAA	ATCTTAGAGC	CCTTCAGAGC
2121	PURUNUATION TO THE PROPERTY OF	CALATAGTTA	TCTATCAATA	TATGGATGAC	TTGTATGTAG	GATCTGACTT
J 1 & 1	DODALINGO	CAACATAGAG	CAAAAATAGA	AGAGTTAAGG	GAACATTTAT	TGAAATGGGG

FIGURE 1B

			E TOOKE IE)		
3181	ATTTACAACA	CCAGACAAGA	AACATCAAAA	AGAACCCCCA	TTTCTTTGGA	TGGGGTATGA
3241	ACTCCATCCT	GACAAATGGA	CAGTACAACC	TATACTGCTG	CCAGAAAAGG	ATACTTCCAC
330T	TGTCAATGAT	ATACAGAAGT	TAGTGGGAAA	ATTAAACTGG	GCAAGTCAGA	ጥጥ ከርርር አርር
3361	GATTAAAGTA	AGGCAACTCT	GTAAACTCCT	CAGGGGGGCC	AAAGCACTAA	CAGACATAGT
3421	ACCACTAACT	GAAGAAGCAG	AATTAGAATT	GGCAGAGAAC	AGGGAAATTT	TAACACAACC
3481	AGTACATGGA	GTATATTATG	ATCCATCAAA	AGACTTGATA	GCTGAAATAC	AGADACAGGG
3541	GCATGAACAA	TGGACATATC	AAATTTATCA	AGAACCATTT	AAAAATCTGA	AAACACCCAA
30 h T	GTATGCAAAA	ATGAGGACTA	CCCACACTAA	TGATGTAAAA	CAGTTAACAG	ACCCACTICGA
3661	AAAAATAGCC	ATGGAAAGCA	TAGTAATATG	GGGAAAGACT	CCTDDDDTTTD	CACTA CCCAT
3721	CCAAAAAGAA	ACATGGGAGA	CATGGTGGAC	AGACTATTCC	CARCCACCA	GACIACCCAT
3781	GTGGGAGTTT	GTTAATACCC	CTCCCCTAGT	AAAATTATGG	TACCAACT	AAAACAMGG
3841	CATAGCAGGA	GTAGAAACTT	TCTATGTAGA	TGGAGCAACT	AATAGGGAAG	CULLARAGETIC
3901	AAAAGCAGGG	TATGTTACTG	ACAGAGGAAG	GCAGAAAATT	CTTACCOCANA	CIMANATAGG
3961	AAATCAGAAG	ACTGAGTTAC	AAGCAATTCA	GCTAGCTCTG	CACCAMMCAC	CIAACACAAC
4021	AAACATAGTA	ACAGACTCAC	AGTATGCATT	AGGAATCATT	CAAGCACAAC	GATCAGAAGT
			AAATAATAGA	ACAGTTAATA	A A CA A CCA A A	CAGATAAGAG
4141	GTCATGGGTA	CCAGCACATA	AAGGAATTGG	GGGDADTGNA	CN A CMA CA MA	GAATCTACCT
4201	TAAGGGAATT	AGGAAAGTGT	TGTTTCTAGA	TGGDATAGAT	ANACCHONAC	AATTAGTAAG
4261	AAGGTACCAC	AGCAATTGGA	GAGCAATGGC	TABTCACTOR	AMMOUTCAMG	AAGAGCATGA
4321	AAAAGAAATA	GTAGCTAGCT	GTGATAAATG	TOACOTATA	GCCCAACCCA	CCATAGTAGC
4381	AGTCGACTGT	AGTCCAGGGA	TATGGCAATT	ACAMMENACE	CAMMMACACC	TACATGGACA
4441	CCTGGTAGCA	GTCCATGTAG	CTAGTGGCTA	CATGGAAGCA	CATTIAGAGG	GAAAAATCAT
4501	AGGACAAGAA	ACAGCATATT	TATATAAA	ATTACCACCA	ACAMCCCCAC	CAGCAGAAAC
4561	ACATACAGAC	AATGGCAGTA	ATTTTACCAG	TACTGCAGT	AGAIGGCCAG	CUMCCHCCC
4621	AGGTATCCAA	CAGGAATTTG	GAATTCCCTA	CAATCCCCAA	ACTUACUUM	GITGGTGGGC
	CATGAATAAA			ACAAGTAAGA	CATCARGGAG	TGGTAGAATC
	GACAGCAGTA		TATTCATTCA	CAATTTTAAA	DELOTAGE	AGCACCTTAA
	GTACAGTGCA		TAATAGACAT	AATAGCAACA	CACATACAAA	CMARTGGGGG
	ACAAAAACAA		TTCAAAATTT	TCGGGTTTAT	TACACACACA	CCACAGAGATT
	TATTTGGAAA		AACTACTCTG	GAAAGGTGAA	CCCCTACTAC	TIN NON CON CO
	TAAAGGTGAC		TACCAAGGAG	GAAAGCAAAA	ATCATTACAC	AUTHOUSE
	ACAGATGGCA		GTGTGGCAGG	TGGACAGGAT	CAACATTACAC	ATTATOGAAA
5101	GTTTAGTAAA	GCACCATATG	TATATATCAA	GGAGAGCTAG	TGGATGGGTC	TACACACARC
5161	ATTTTGAAAG	CAGACATCCA	AAAGTAAGTT	CAGAAGTACA	TATCCCATTA	CCCCA TCCTA
	GATTAGTAAT		TGGGGTTTGC	AGACAGGAGA	AAGAGATTGG	CAMMINGCOM
5281	ATGGAGTCTC	CATAGAATGG	AGACTGAGAG	AATACAGCAC	ACAAGTAGAC	CCTCACCTCC
5341	CAGACCAGCT	AATTĊACATG	CATTATTTTG	ATTGTTTTAC	AGAATCTGCC	ATANCACAR
5401	CCATATTAGG	ACACATAGTT	TTTCCTAGGT	GTGACTATCA	AGCAGGACAT	ALGARGACAAG
5461	GATCTCTGCA	ATACTTGGCA	CTGACAGCAT	TGATAAAACC	AAAAAAGAGA	AACCCACCTC
5521	TGCCTAGTGT	TAGAAAATTA	GTAGAGGATA	GATGGAACGA	CCCCCAGAAG	ACCAGGGGGC
5581	GCAGAGGGAA	CCATACAATG	AATGGACACT ·	AGAGATTCTA	GAAGAACTCA	A CCA CCA A CC
2041	TGTCAGACAC	TTTCCTAGAC	CATGGCTCCA	TAGCTTAGGA	CAATATATCT	ልጥርል እ አ ርርጥአ
5701	TGGGGATACT	TGGACGGGAG	TTGAAGCTAT	AATAAGAGTA	CTGCAACAAC	TACTICATACCIA
5761	TCATTTCAGA	ATTGGATGCC	AACATAGCAG	AATAGGCATC	TTGCGACAGA	GAAGAGCAAG
5821	AAATGGAGCC	AGTAGATCCT	AAACTAAAGC	CCTGGAACCA	TECAGGAAGC	CANCIDATION
5881	CAGCTTGTAA	TAATTGCTTT	TGCAAACACT	GTAGCTATCA	TTGTCTAGT	TECTTOTALLA
5941	CAAAAGGTTT	AGGCATTTCC	TATGGCAGGA	AGAAGCGGAG	ACAGCGACGA	ACCCCTCCTC
			AATCCTCTAT	CAAAGCAGTA	ACTACACATA	CTACATCTA
6061	TGGTAAGTTT	AAGTTTATTT	AAAGGAGTAG	ATTATAGATT	AGGAGTAGGA	-CCDMMCVMVC
6121	TAGCACTAAT	CATAGCAATA	ATAGTGTGGA	CCATAGCATA	TATACATAGGA	ACCY Y Y MMCC
6181	TAAGACAAAA	GAAAATAGAC	TGGTTAATTA	AAAGAATTAG	CCDDDCDCD	CAACACACAC
6241	GCAATGAGAG	TGATGGGGAC	ACAGAAGAAT	TGTCAACAAm	COMMOND TO THE COMMON	CCCC MCmm*
6301	GGCTTCTGGA	TGCTAATGAT	TTGTAACACG	GAGGACTAT	CCCTCACACT	CONCENTETA
				or o out I GI	GGGT CACAGT	CIACTATGGG

FIGURE 1C

					~~~~~~	A1 = A1 a1 man	
						CATCAGATGC	
						TACCCACAGA	
						TGTGGAAAAA	
						GCCTAAAGCC	
						ATGTTACAGG	
						CATATAAGTA	
						AGAAACATAA	
						GTAACAACTT	
						CAAAGGTCTC	
						TAAAGTGTAA	
						AATGTACACA	
						CAGAAGAAGG	
						TACATCTTAA	
							AGGACCAGGA.
						GACAAGCACA	
						AAAAATTAGG	
	•					ATCTAGAAAT	
			•			CAAACCTGTT	
						CAAGCTTACC	
		•				TAGGACAAGC	
						CAGGAATACT	
							TGGAGGAGGA
		•				AAGTGGTAGA	
						AGAGAAAAA	
						GAAGCACTAT	
•					•	GTATAGTGCA	
						AACTCACAGT	
							ACAGCTCCTA
						CTGTGCCTTG	
							GTGGGATAGA
						AAGACTCGCA	
						ATAATCTGTG	
Į					•		AGGCTTGATA
•							GGGATACTCA
							CGGAGGAATC
							CGGATTCTTG
							CTTGAGAGAC
							CAGGGGACTA
			_				GGGTCTAGAG
							TGAAGGAACA
							ACCTAGGAGA
					-		CAAAACGCAG
							CAGCAGAGGG
							GCAACACACC
		•					ATGTAGGCTT
							TAGATCTCAG
							AAAGGCAAGA
							AAAACTACAC
							TAGTACCAGT
							TACACCCTAT
	9361	GAGCCAACAT	GGAGCAGAGG	ATGAAGATAG	AGAAGTATTA	AAGTGGAAGT	TTGACAGCCT
	9421	TCTAGCACAC	AGACACATGG	CCCGCGAGCT	ACATCCGGAG	TATTACAAAG	ACTGCTGACA

### FIGURE 1D

9481	CAGAAGGGAC	TTTCCGCCTG	GGACTTTCCA	CTGGGGCGTT	CCGGGAGGTG	TGGTCTGGGC
9541	GGGACTTGGG	AGTGGTCACC	CTCAGATGCT	GCATATAAGC	AGCTGCTTTT	CGCTTGTACT
9601	GGGTCTCTCT	CGGTAGACCA	GATCTGAGCC	TGGGAGCTCT	CTGGCTATCT	AGGGAACCCA
9661	CTGCTTAGGC	CTCAATAAAG	CTTGCCTTGA	GTGCTCTAAG	TAGTGTGTGC	CCATCTGTTG
9721	TGTGACTCTG	GTAACTAGAG	ATCCCTCAGA	CCCTTTGTGG	TAGTGTGGAA	AATCTCTAGC
9781						

### Figure 2A

- $\downarrow$ : indicates the regions for  $\beta$ -sheet and V1/V2 loop deletions
- *: is the N-linked glycosylation sites for subtype C TV1 and TV2. Possible mutation ( $N \rightarrow Q$ ) or deletions can be performed.

```
B-SF162
                                                                                                                (1) ----MDAMKRGLCCLLICCAVF SP-SAVEKUWVTV11GVPVM SATTT
(1) METOCCOMPONICATION II-CNTEDWVTV1YGVPV SATTT
(1) MACTOCCOMPONICATION II-CNTEDWVTV1YGVPV SATTT
(1) MELIEMYLCLIC MILLONGE TYNORKKWVTV1YYGVPV SATTT
(1) ----MDAMKRGLCCLLIC AVF SP-SASNNIWVTV1YYGVPV SATTT
(1) MDU G BU O WWINGILGFWMIM S E LWVTV1YYGVPVWEAKTT
                                                                                                                                       ----MDAMKRGLCONLLECGAVEKSP-SAVEKNWVTVYYGVPV例题的ATTT
                                                                                                                    (1)
                                 C-TV1.8_2
                                 C-TV1.8 5
               C-TV2.12-571
                                                          C-MJ4
   IndiaC-93IN101
                                             A-Q2317
                                 D-92UG001
                                             E-cm235
                                                                                                                  (1) MRV G RN Q WWIWGILGFWMLM S E LWVTVYYGVPVWREAKTT
                                  Consensus
                                                                                                         (46) LECASDAKE TREETHY WATHACVPTDPNPCE LENVTER FINMEN IN MEDICAL CASDAKE TREETHY WATHACVPTDPNPCE LENVTER FINMEN IN MEDICAL CASDAKE THE HIN WATHACVPTDPNPCE LENVTER FINMEN IN MACOUNTER FINMEN FINMEN IN MACOUNTER FINMEN FI
                                            B-SF162
                                 C-TV1.8 2
                                C-TV1.8_5
              C-TV2.12-5/1
                                                         C-MJ4
  IndiaC-93IN101
                                           A-Q2317
                                 D-92UG001
                                           E-cm235
                                                                                                            (51) LFCASDAKAYETEVHNVWATHACVPTDPNPQEIVL NVTENFNMWKNNMV
                                 Consensus
                                                                                                                                                                                                                                                                                                                                                 β2/V1V2/β3
                                                                                                                                                                                                                                                                                                                                                                                                                                       *150
                                                                                                  (96) EQMEDISLWDQSLKPCVKLTPLCVTLHCERLKNATN----TKSS
(100) EQMEDISLWDQSLKPCVKLTPLCVTLNCEDTNVTGNTTVTGNSTNNTN
(100) EQMEDISLWDQSLKPCVKLTPLCVTLNCEDTNVTGNTTVTGNTNDTNI
(100) EQMEDISLWDQSLKPCVKLTPLCVTLNCERTVNYN----NTS-
(99) EQMEDISLWDQSLKPCVKLTPLCVTLNCKEVTSKDI----NI
(101) EQMEDISLWDQSLKPCVKLTPLCVTLHCREVTSKDI----SY
(101) EQMEDISLWDQSLKPCVKLTPLCVTLHCREVTSNT
                                           B-SF162
                              C-TV1.8_2
                               C-TV1.8 5
             C-TV2.12-5/1
                                                        C-MJ4
IndiaC-93IN101
                                                                                                   (101) COMETICAL SERVICE OF THE CONTROL OF THE CONTR
                                          A-Q2317
                               D-92UG001
                                           E-cm235
                                                                                                   (101) DOMHEDIISLWDQSLKPCVKLTPLCVTLNCTN
                               Consensus
                                        C-TV1.8 2
                              C-TV1.8 5
            C-TV2.12-571
IndiaC-93IN101
                               D-92UG001
                             Consensus
                                                                                                                                                                                  EEMKNCSFNITTELRDKK KEYALFYKLDIVPLN
                                                                                                   (151)
```

### Figure 2B

		201		
- a=1.60	/1021	201 <b>★ ▼</b>		* * 250
B-SF162	(183) (197)	SYNLINC NTSVITONCP		
C-TV1.8_2	(197)	TIRLINCTITSTINOSCP.	righth Leinice	THE REPORT OF THE PERSON OF TH
C-TV1.8_5	(197)	TYPLINC TSTI OFCP NYFLINC TSAI OFCP EYLINC DISTI OFCP	KMALDLILLHACALV	DANSTERCONNETENCHICAC
C-TV2.12-5/1	(100)	MIRTING STREET	VANEARLEIHICHLA	STAPLICONNEKT NGIGHC
C-MJ4	(103)	EIRLING DISTINGSCP.	KMILIDITATHICMEN	#WV#LKCNNW1FNGEGRC
IndiaC-93IN101	(191)	EYELINCATSAI OCP	KMMEMBILLIHACEBA	
A-Q2317	(182)	EYELINCHTSAI CCP		
D-92UG001.	(194)	NYRLINCATSALEORCP.		
E-cm235	(188)			EN MILKONDENFINGEGEC
Consensus	(201)	IRLINCIATS ITQACP	KASLDLILIHACUL	GYAILKCNNK FNGTGPC
		*	•	*
		251	*	* 300
B-SF162	(233)		TOTALINGS LAFRGER	IRS版NFTDNAK版IVQLK
C-TV1.8 2	(247)	YNVSÄVQCTHGIÖPVVS		
C-TV1.8 5	(247)	YNVSTVQCTHGIRPVVS		
C-TV2.12-5/1	(233)	DNYSTVQCTHGIEPVVS		
C-MJ4	(239)	NNVSHVOCTHGIRPVVS	TOLLINGSLAFK	IRSKNETDNVKETIVALK
IndiaC-93IN101	(241)	NNVS VQCTHGI PVVS		
A-Q2317	(232)	KNVSIVQCTHGIRPVVS	TOLLINGSTARKNEY	TREBUGTONAKTOTYOTA
D-92UG001	(244)	KNVSIVOCTHGTEPVVS	TOLLINGSLAERE	IRSINGTNAKEIVQLO
E-cm235	(238)	KNVSEVOCTHGTEPVVS	TOLLINGSLAPHER	IRSONTTINAK TIVELA
Consensus	(251)			IRSENLTNN KTIIVHLN
•••••	,,			
			·	*
		301 * *	•	* 350
B-SF162	(283)	301 * * <b>阿斯斯斯</b> C和民PY-NNSRE		TEGDIROAHCNOEGE WN
C-TV1.8_2	(297)	THE THE PROPERTY OF THE PROPER	STEIGEGOOT YATNI	iegdiroahcnoegerwn Meniroahcnoegerwn
C-TV1.8_2 C-TV1.8_5	(297) (297)	PARTICULARY - NUMBER PROPERTY	Parice Company Price Company P	tegdirgahchiegerwn Mgnirgahchietdrwn Mgnirgahchietdrwn
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1	(297) (297) (283)	evelychenenene evelychenenenenenenenenenenenenenenenenenenen	Michely are in Parichely are in Parichely are in the interest of the interest	GHIROAHCHUGGEWN MGNIROAHCHUGTDHWN MGNIROAHCHUGTDHWN MGNIROAHCHUGGEWN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4	(297) (297) (283) (289)	evelichengenier Evelichengenier Evelichengenier Evelichengenier Evelichengenier	SVETCE CONSTRUITED VETCE CONSTRUITED VETCE CONSTRUITED SVETCE CONSTRUITED	iggiraalchigebwn Vignirgaichigtdhwn Vignirgaichigthewn Comirgaichigthewn Comiraachigebwn
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101	(297) (297) (283) (289) (291)	eweincherg-nier eweincherg-nier eweincherg-nier eweincherg-nier eweincherg-nier coencept-nier	THE STATE OF THE S	igilkoahchiggebun Vignirgahchigtdhun Vignirgahchigtdhun Giirgahchigkneun Vigniraanchigeskun Vigniraanchigeskun Vigniraanchigeskun
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317	(297) (297) (283) (289) (291) (282)	EVETICARIO NA RESERVATA DE LA COMPANIO DEL COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL COMPANIO DE LA COMPANIO DEL	TATOR STATES	GEIROAHCHEGEENN VIGNIRAACHETTENN VIGNIROAHCHETTENN GEIROAHCHEESKNI VIGIIROAHCHESEKNI VIGIIROAHCHEROKNI VIGIIROAHCHERSENN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001	(297) (297) (283) (289) (291) (282) (294)	EVELICARPY-NURSE LINCORPY-NURSE LINCORPT-NURSE LINCORPH-NURSE LINC	IGEG YATNI SVEIGEG WYBTNI VEIGEG ABVETE STEIGEG WYBTE STEIGEG WYBTE STEIGEG WYBTE RTSIGOG WIYTTR-	Egiroakchiegeenn Egnirgaechietenn Zignirgaechietenn Egiirgaechiesesenn Egiiraakchiesesenn Egiirgaechiesenn Egiirgaechiesenn Tigiirkanchieseann
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235	(297) (297) (283) (289) (291) (282) (294) (288)	INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS OPPIKCIRPY-NORS OPPIKCIRPY-NORS INCORPY-NORS INCORPY-NORS INCORPS-NORT	EIGEGE YETNE VEIGEGE YETE VEIGEGE YETE VEIGEGE YETE VEIGEGE YETE RISIGOG VEYRIE TIGEGE VERREE	EGIROALCHEGE WN EGNIRGAECKETTEWN TGNIRGAECKETTEWN GGIROALCHESEWN TGGIROALCHESEWN TGGIROALCHESEWN TGGIROALCHESKAGWN TGGIRKANCHESKAGWN TGGIRKANCHESKAGWN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001	(297) (297) (283) (289) (291) (282) (294)	INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS OPTIKCIRPY-NORS OPTIKCIRPY-NORS OPTIKCIRPY-NORS OPTIKCIRPY-NORS OPTIKCIRPY-NORS OPTIKCIRPY-NORS OPTIKCIRPY-NORS	EIGEGE YETNE VEIGEGE YETE VEIGEGE YETE VEIGEGE YETE VEIGEGE YETE RISIGOG VEYRIE TIGEGE VERREE	EGIROALCHEGE WN EGNIRGAECKETTEWN TGNIRGAECKETTEWN GGIROALCHESEWN TGGIROALCHESEWN TGGIROALCHESEWN TGGIROALCHESKAGWN TGGIRKANCHESKAGWN TGGIRKANCHESKAGWN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235	(297) (297) (283) (289) (291) (282) (294) (288)	INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS OPPIKCIRPY-NORS OPPIKCIRPY-NORS INCORPY-NORS INCORPY-NORS INCORPS-NORT	EIGEGE YETNE VEIGEGE YETE VEIGEGE YETE VEIGEGE YETE VEIGEGE YETE RISIGOG VEYRIE TIGEGE VERREE	EGIROALCHEGE WN EGNIRGAECKETTEWN TGNIRGAECKETTEWN GGIROALCHESEWN TGGIROALCHESEWN TGGIROALCHESEWN TGGIROALCHESKAGWN TGGIRKANCHESKAGWN TGGIRKANCHESKAGWN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235	(297) (297) (283) (289) (291) (282) (294) (288)	ESVEINCTRPN NNTR	EIGEGE YETNE VEIGEGE YETE VEIGEGE YETE VEIGEGE YETE VEIGEGE YETE RISIGOG VEYRIE TIGEGE VERREE	GDIROAHCHUGGEWN GDIROAHCHUGGERWN GGIRGAHCHUGTHWN GGIRAACH GESKWN GGIRGAHCHUGESKWN GGIRGAHCHUGESKWN TGGIRKAKCHUGTKWN IGGIRKAKCHUGTKWN IGGIRKAKCHUGTKWN IGGIRKAKCHUGTKWN IIGGIRQAHCNIS KWN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235 Consensus	(297) (297) (283) (289) (291) (282) (294) (288) (301)	EVEINCH RPY-NIRK  INCHERPS-NIRK  INCHERPS-NIRK  INCHERPS-NIRK  INCHERPS-NIRK  OF THE	HIGAG YATU NICEGO YATU NICEGO YATU NICEGO YATU IRICEGO YATU RISIOGO YATUR RISIOGO YATUR SIRIGIGO YATUR SIRIGIGO YATUR SIRIGIGO YATUR	GDIROAHCHUGGEWN JGNIRGALCHUGTDHWN JGNIRGALCHUGTDHWN JGNIRGALCHUGHKNEWN LIGDIROAHCNIS KWN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235 Consensus	(297) (297) (283) (289) (291) (282) (294) (288) (301)	THE TREE TO THE PARTY OF THE PA	HIGEGE YATU HIGEGE YATU MAIGEGE YATE MAIGEGE YATE MAIGEGE YATE MAIGEGE YATE MAIGEGE WATE SIRIGPGQAFYATGE T-IVFKQSEGGDPEI	GDIROAHCHEGEEWN GDIROAHCHEGTDHWN GDIROAHCHEGTDHWN GDIROAHCHEGESKWN GGIROAHCHEGESKWN GGIROAHCHEGERKAGWN GGIRKAGCHEKAGWN TGBIRKAGCHEKAGWN TGBIRKAGCHEKAWN IGDIROAHCNIS KWN  *400 VMHBFNCGGEFFYCN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235 Consensus	(297) (297) (283) (289) (291) (282) (294) (288) (301) (332) (346)	INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS OPTIKCIRPY-NORS OPTIKCIRPY-NORS ESTEINCORPY-NORS ESVEINCTRPN NNTRK  351 * NTLKENTKLQAQFGIK	EIGEGE YATU VEIGEGE YATU VEIGEGE YATU VEIGEGE YATU VEIGEGE YATU ETSIGOGE YATU RTSIGOGE YATU RTSIGOGE YATU RTSIGOGE YATU RTSIGOGE YATU RTSIGOGE YATU RTSIGOGE YATU RTSIGOGE YATU RTSIGOGE YATU SIRIGPGQAFYATGE T-IVFKQSEGGDPEI T-IQFKHEGGDEEI	EGIROALCHEGE WN  AGNIREA COUSTDEWN  TGNIREA COUSTDEWN  GGIREA COUSTDEWN  TGIREA COUSTDEWN  *400  VMHSFNCGGEFFYCHEN
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235 Consensus B-SF162 C-TV1.8_2 C-TV1.8_5	(297) (297) (283) (289) (291) (282) (294) (288) (301) (332) (346) (346)	EVEINCHRPY-NURS DINCHRPY-NURS DINCHRPY-NURS DINCHRPY-NURS DINCHRPY-NURS DINCHRPY-NURS DINCHRPY-NURS DINCHRPY-NURS DINCHRPY-NURS DINCHRPY-NURS DINCHRPS-NURS ESVEINCTRPN NNTRK  351  * NULSENTK LQAQFGX KULOWKK LGUTPUS KULOWKK LGUTPUS KULOWKK LGUTPUS	HIGAG YATING VERNESS OF THE STATE OF THE STA	EGUIROAHCIUGEEWN EGNIROAHCIUGETOHN EGNIROAHCIUGITOHN GGIIROAHCIUGITOHN IGGIIROAHCIUGEREWN IGGIIROAHCIUGEREWN IGGIIROAHCIUGEREWN IGGIIROAHCIUGEREWN IGGIIROAHCIUGEREWN IGGIIROAHCIUGEREWN IGGIIROAHCIUGEREWN IIGGIIROAHCIUGEREWN IIGGIIROAHCIUGEREWN IIGGIIROAHCIUGEREWN IIGGIIROAHCIUGEREWN IIGGIIROAHCIUGEREWN IIGGIIROAHCIUGEREWN IIGGIIROAHCIUGEREWN IMHSFINCEGEFFYCHESIN
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C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235 Consensus B-SF162 C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001	(297) (297) (283) (289) (291) (282) (294) (301) (332) (346) (3346) (3346) (338) (340) (331) (343)	EVELINCIRPY—NURSE INCORPY—NURSE INCORPS—NURSE INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—INCORPS—	IGEGET YETTE IGEGET YETTE VICEGET YETTE IGEGET YETTE IGEGET YETTE IGEGET YETTE IGEGET YETTE IGEGET YETTE IGEGET YETTE ITTOFK HAGGODEN ITTOFK HAGGODEN	GEIROAHCHEGE WN  GEIROAHCHE TOEWN  GEIROAHCHE TOEWN  GEIROAHCHE ES WN  GEIROAHCHE ES WN  TGEIROAHCHE ES WN  TGEIROAHCHE ES WN  TGEIROAHCHE ES WN  **400  VMHS FNCGGEFFYCNEN  MHS FNCGGEFFYCNEN  THE FNCGGEFFYCNES  HE FNCGGEFFYCNES
C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235 Consensus  B-SF162 C-TV1.8_5 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317	(297) (297) (283) (289) (291) (282) (294) (288) (301) (332) (346) (3346) (3346) (336) (338) (338) (340) (331)	INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS INCORPY-NORS OPTIKCIRPY-NORS OPTIKCIRPY-NORS ESVEINCTRPN NNTRK  351 ** NOLKOVTKLOAQFGIK OPTIKCIRPY-NORT ESVEINCTRPN NNTRK  INCORPY-NORT ESVEINCTRPN NNTRK  INCORPS-NORT ENLOST E	IGAG YATING TO THE PROPERTY OF	GEIROAHCHEGE WN  GEIROAHCHE TOEWN  GEIROAHCHE TOEWN  GEIROAHCHE ES WN  GEIROAHCHE ES WN  TGEIROAHCHE ES WN  TGEIROAHCHE ES WN  TGEIROAHCHE ES WN  **400  VMHS FNCGGEFFYCNEN  MHS FNCGGEFFYCNEN  THE FNCGGEFFYCNES  HE FNCGGEFFYCNES

### Figure 2C

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401
                                       β20/β21
                   B-SF162
              C-TV1.8_2
              C-TV1.8_5
       C-TV2.12-5/1
                        C-MJ4
  IndiaC-93IN101
                   A-Q2317
              D-92UG001
                   E-cm235
              Consensus
                                       451 * * * * * 500

(424) IRGEIRCSSNITGELLEIDGGKEIENT---TEIFRPEGGERDNWRSELY
(442) IRGEIECRSNITGELLEIDGGFNING---TEIFRPEGGERDNWRSELY
(442) IRGEIECRSNITGELLEIDGGFNINGT-EBIFRPEGGERDNWRSELY
(430) IRGEIECRSNITGELLEIDGGDNIET---EIFRPEGGERDNWRSELY
(428) IRGEIECRSNITGELLVEDGGNETEGI---EIFRPEGGERDNWRSELY
(428) IRGEIECTSNITGELLVEDGGKENDTENKTEIFRPEGGERDNWRSELY
(436) IRGEIECTSNITGELLVEDGGKDNWR---EFFRPEGGERDNWRSELY
(441) IRGWINCASNITGELLVEDGGARDS---NEUFRPEGGERDNWRSELY
(441) IRGRINCVSNITGELLWEDGGARDS---NEUFRPEGGNEDNWRSELY
(429) IRGRINCVSNITGELLWEDGGARDS-----EFFRPEGGNEDNWRSELY
(451) IAGNITC SNITGLLUTRDG NT N ETFRPEGGDMRDNWRSELY
                  B-SF162
             C-TV1.8 2
             C-TV1.8 5
      C-TV2.12-5/1
                       C-MJ4
  IndiaC-93IN101
                 A-Q2317
             D-92UG001
                  E-cm235
                                      (451) IAGNITC SNITGLLLTROGG NT N
                                                                                                                           ETFRPGGGDMRDNWRSELY
                                   550

(471) KYKVVKIEPLGVAPTE KRRVVQROKRAVTIGA HIGFLGAAGSTMGARS

(489) KYKVVDIEPLGVAPTE KRRVVQROKRAVOJGA TGFLGAAGSTMGAGS

(491) KYKVVDIEPLGVAPTA KRRVVQRKKRAVOJGA TGFLGAAGSTMGAGS

(476) KYKVVDIEPLGVAPTA KRRVVORKKRAVOJGFLGAAGSTMGAGS

(474) KYKVVIEPLGVAPTA KRRVVORKKRAVTGAAVOJGFLGAAGSTMGAGS

(486) KYKVVEIPLGVAPTE KRRVVORKKRAVOJGAAVOJGFLGAAGSTMGAGS

(475) KYKVVDIEPLGVAPTE KRRVVORKKRAVOJGAVOJGFLGAAGSTMGAGS

(488) KYKVVKIEPLGVAPTE KRRVVORKKRAVOJGAVOJGFLGAAGSTMGAGS

(475) KYKVVQIEPLGVAPTE KRRVVORKKRAVOJGAVOJGFLGAAGSTMGAGS

(475) KYKVVQIEPLGVAPTE KRRVVORKKRAVOJGAVOJGFLGAAGSTMGAGS

(476) KYKVVEIKPLGIAPTE KRRVVORKKRAVOJGAVOJGFLGAAGSTMGAGS

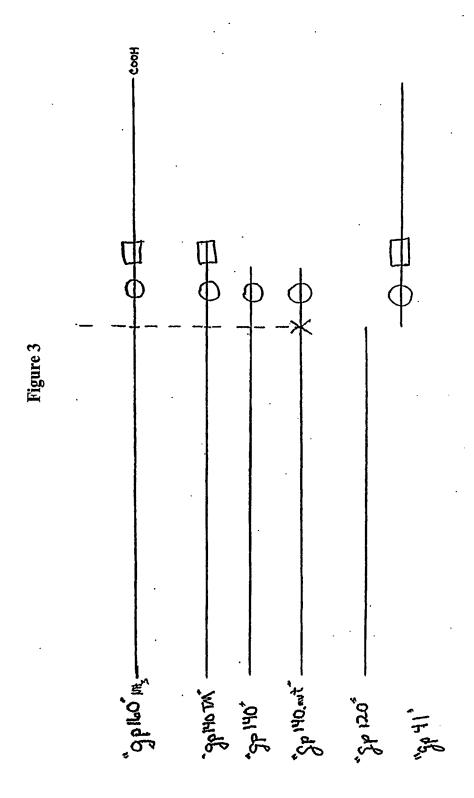
(501) KYKVVEIKPLGIAPTKAKRRVVORKKRAVOJGAVOJGJAGAGSTMGAGS

(501)
                 B-SF162
            C-TV1.8 2
            C-TV1.8 5
     C-TV2.12-571
                      C-MJ4
 IndiaC-93IN101
                 A-Q2317
            D-92UG001
                 E-cm235
            Consensus (501) KYKVVEIKPLGIAPTKAKRRVVEREKRAVGIGAVFLGFLGAAGSTMGAAS
               C-TV1.8 2
            C-TV1.8 5
    C-TV2.12-571
IndiaC-93IN101
           D-92UG001
           Consensus (551) ITLTVQARQLLSGIVQQQSNLLRAIEAQQHLLQLTVWGIKQLQARVLAVE
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### Figure 2D

B-SF162 C-TV1.8_2 C-TV1.8_5 C-TV2.12-5/1 C-MJ4 IndiaC-93IN101 A-Q2317 D-92UG001 E-cm235 Consensus	(589) (591) (576) (574) (586) (575) (588) (575)	601  RYLKDOĞILGİMGCSGÜLCTİVÜMNİSMSNÜ LDQIMÜNİTMÜMÜ EL RYLKDOĞILGİMGCSGÜLCTİVÜMNİSMSNÜ EKĞIMDNÜ TMÜMÜ EL RYLKDOĞILGİMGCSGÜLCTİŞVÜMNİSMSNÜ EKĞIMDNÜ TMÜMÜ EL RYLÇDOĞILGİMGCSGÜLCTİŞVÜMNİSMSNÜ QƏBİMDNÜ TMÜMÜ EL RYLÇDOĞILGİMGCSGÜLCTİŞVÜMNİSMSNÜ QƏBİMDNÜ TMÜMÜ EL RYLÜDOĞILGİMGCSGÜLCTİŞVÜMNİSMSNÜ QƏBİMÜN TMÜMÜ EL RYLÜDOĞILGİMGCSGÜLCTİŞVÜMNİSMSNÜ LDĞIMÜN TMÜMÜ EL RYLÇDOĞILGİMGCSGÜLCTİŞVÜMNİSMSNÜ YEŞIMÜN TMÜMÜ EL RYLÇDOĞILGİMGCSGÜLCTİŞVÜMNİSMSNÜ YEŞIMÜN TMÜMÜ EL RYLÇDOĞILGİMGCSGÜLCTİŞVÜMNİSMSNÜ YEŞIMÜN TMÜMÜ EL RYLKDOQLLGİMGCSGKLICTİN ÜMNİSMSNÜ YEŞIMÜN TMÜMÜRE RILÇİKDOQLLGİMGCSGKLICTİN VƏNDİSMSNIKS DIMINIM TMÜMÜRE RILÇİKDOQLLGİMGCSGKLICTİN VƏNDİSMSNIKS DIMINIM TMÜMÜREN ÇE RYLKDOQLLGİMGCSGKLICTİN VƏNDİSMSNIKS DIMINIM TMÜMÜREN ÇE RYLKDOQLLGİMGCSGKLICTİN VƏNDİSMSNIKS DIMINIM TMÜMÜREN ÇE RYLKDOQLLGİMGCSGKLICTİN VƏNDİSMSNIKS DIMINIM TMÜMÜREN ÇE RYLKDOQLLGİMGCSGKLICTİN VƏNDİSMSNIKS DIMINIM TMÜMÜRÜ RÜLÜ ÇÜN ÇÜN ÇE RIMINIM TMÜMÜN ÇEN ÇE RIMINIM ÇIM ÇEN ÇEN ÇEN ÇÜN ÇEN ÇEN ÇEN ÇEN ÇEN ÇEN ÇEN ÇEN ÇEN ÇE
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C-TV2.12-571	(626)	INTERTOR DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR
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E-cm235	(625)	を表れて記り、
Consensus	(651)	ISNYTNLIYRLLEESQNQQEKNEKDLLELDKW NLWNWFDISNWLWYIKI
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IndiaC-93IN101	(786)	LGRESWEEKYTGELTOYWELELKESKTELFDETATVVAEGTD
A-Q2317	(775)	LGHSTEDIRLGWESTKYTWNLDSYWERELKISATNER TTATAVAGWTD
D-92UG001	(788)	LGBKGWEEKYEWNLEGYWSQELKTSALSFNATAWAVAHOTD
E-cm235	(775)	LGESTEER TOWN KYTONLILYWOOELKISA COMPATATIVAGWTD
<ul> <li>Consensus</li> </ul>	(801)	LGRSSLRGL RGWEALKYLGSLLQYWGLELKKSAISLLDTIAIAVAEGTD
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A-Q2317	(825)	RETERACETOR PURI ROGLERELL
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E-cm235	(825)	REFERAQGAWRANTHEPERIRQGLERTLL
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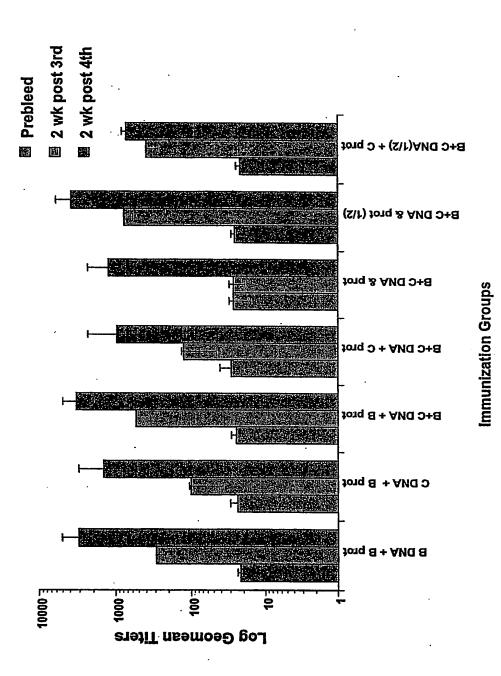
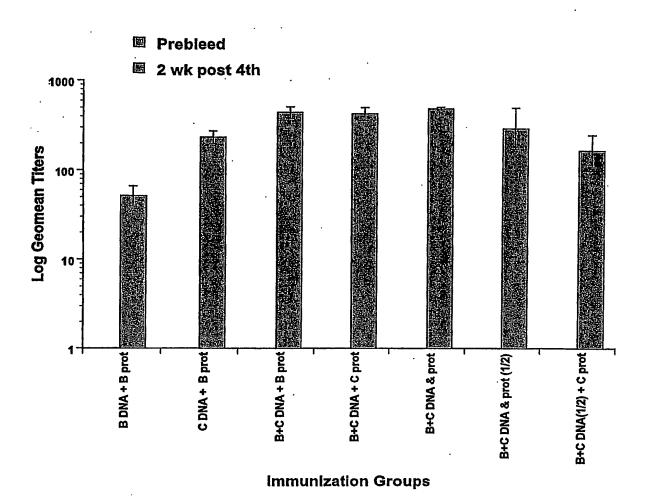


Figure 5



### gp140.modSF162.delV2

gaattcgccaccatggatgcaatgaagagggctctgctgtgtgctgctgctgtgtggagcagtc ttegtttegeecagegeegtggagaagetgtgggtgaeegtgtaetaeggegtgeeegtgtggaag gaggccaccaccaccatgttctgcgccagcgacgccaaggcctacgacaccgaggtgcacaacgtg tgggccacccacgcctgcgtgcccaccgaccccaacccccaggagatcgtgctggagaacgtgacc gagaacttcaacatgtggaagaacaacatggtggagcagatgcacgaggacatcatcagcctgtgg gaccagagcctgaagccctgcgtgaagctgaccccctgtgcgtgaccctgcactgcaccaacctg aagaacgccaccaacaccaagagcagcaactggaaggagatggaccgcggcgagatcaagaactgc agetteaaggtgggeeggeaagetgateaaetgeaacagegtgateacecaggeetgeee aaggtgagcttcgagcccatcccatccactactgcgcccccgccggcttcgccatcctgaagtgc aacgacaagaagttcaacggcagcggcccctgcaccaacgtgagcaccgtgcagtgcacccacggc atccgccccgtggtgagcacccagctgctgctgaacggcagcctggccgaggagggcgtggtgatc cgcagcgagaacttcaccgacaacgccaagaccatcatcgtgcagctgaaggagagcgtggagatc aactgcacccgcccaacaacaccccgcaagagcatcaccatcggccccgggccgcgcttctac gccaccggcgacatcatcggcgacatccgccaggcccactgcaacatcagcggcgagaagtggaac aacaccctgaagcagatcgtgaccaagctgcaggcccagttcggcaacaagaccatcgtgttcaag cagagcagcggcggcgaccccgagatcgtgatgcacagcttcaactgcggcggcgagttcttctac accatcaccctgccctccaccaccaccatcaaccgctggcaggaggtggccatggccatg tacgccccccatecgcggccagatccgctgcagcagcaacatcaccggcctgctgacccgc gacggcggcaaggagatcagcaaccaccgagatcttccgccccggcggcggcgacatgcgcgac aactggcgcagcgagctgtacaagtacaaggtggtgaagatcgagcccctgggcgtggccccacc aaggccaagcgccgcgtggtgcagcgcgagaagcgcgcgtgaccctgggcgccatgttcctgggc ttoctgggcgccgccggcagcaccatgggcgcccgcagcctgaccctgaccgtgcaggcccgccag ctgctgagcggcatcgtgcagcagcagaacaacctgctgcgcgccatcgaggcccagcagcacctg ctgcagctgaccgtgtggggcatcaagcagctgcaggcccgcgtggcggtgggggcgctacctg aaggaccagcagctgctgggcatctggggctgcagcggcaagctgatctgcaccaccgccgtgccc gagcgcgagatcgacaactacaccaacctgatctacaccctgatcgaggagagccagaaccagcag gagaagaacgag caggagctgctggagctggacaagtgggccagcctgtggaactggttcgacatc agcaagtggctgtggtacatctaactcgag

Figure 6

### gp140.mut7.modSF162.delV2

ttegtttegeeeagegegtggagaagetgtgggtgaeegtgtactaeggegtgeeegtgtggaag gaggccaccaccacctgttctgcgccagcgacgccaaggcctacgacaccgaggtgcacaacgtg tgggccacccacgcctgcgtgcccaccgaccccaacccccaggagatcgtgctggagaacgtgacc gagaacttcaacatgtggaagaacaacatggtggagcagatgcacgaggacatcatcatcagcctgtgg gaccagagcctgaagccctgcgtgaagctgaccccctgtgcgtgaccctgcactgcaccaacctg aagaacgccaccaacaccaagagcagcaactggaaggagatggaccgcggcgagatcaagaactgc agetteaaggtgggegeggeaagetgateaaetgeaaeaecagegtgateaeceaggeetgeeee aaggtgagett@gageccatecceatecaetaetgegeceeeggegttegecatectgaagtge aacgacaagaagttcaacggcagcggcccctgcaccaacgtgagcaccgtgcagtgcacccacggc atocgccccgtggtgagcacccagctgctgctgaacggcagcctggccgaggagggcgtggtgatc cgcagcgagaacttcaccgacaacgccaagaccatcatcgtgcagctgaaggagagcgtggagatc aactgcacccgcccaacaacaccccgcaagagcatcaccatcggccccggccgcgccttctac gccaccggcgacatcatcggcgacatccgccaggcccactgcaacatcagcggcgagaagtggaac aacaccctgaagcagatcgtgaccaagctgcaggcccagttcggcaacaagaccatcgtgttcaag cagagcagcggcgaccccgagatcgtgatgcacagcttcaactgcggcggcgagttcttctac tgcaacagcacccagctgttcaacagcacctggaacaacaccateggccccaacaacaccaaeggc accatcaccctgccccatcaagcagatcatcaaccgctggcaggaggtgggcaaggccatg tacgccccccatccgcggccagatccgctgcagcagcaacatcaccggcctgctgctgacccgc gacggcggcaaggagatcagcaacaccgagatcttccgcccggcggcggcgacatgcgcgac aactggcgcagcgagctgtacaagtacaaggtggtgaagatcgagcccctgggcgtggcccccacc aaggccatcagcagcgtggtgcagagcgagaagagcgccgtgacccttgggcgccatgttcctgggc tteetgggegeegeeggeageaceatgggegeeegeageetgaeectgaeegtgeaggeeegeeag ctgctgagcggcatcgtgcagcagcagcaaccacctgcgcgccatcgaggcccagcagcacctg ctgcagctgaccgtgtggggcatcaagcagctgcaggcccgcgtgctggccgtggagcgctacctg aaggaccagcag ctgctgggcatctggggctgcagcggcaagctgatctgcaccaccgccgtgccc gagegegagategacaactacaccaacetgatetacaccetgategaggagagecagaaccagcag gagaagaacgagcaggagctgctggagctggacaagtgggccagcctgtggaactggttcgacatc agcaagtggctgtggtacatctaactcgag

Figure 7

### gp140mod.TV1.delV2

1	gaattcatgc	gcgtgatggg	cacccagaag	aactgccago	agtggtggat	ctggggcatc.
61	otgggottot	ggatgotgat	gatotgoaao	accgaggacc	tgtgggtgao	cgtgtactac
121	ggcgtgcocg	tgtggcgcga	cgccaagacc	accotgttot	gogocagoga	cgccaaggcc
181	tacgagaccg	aggtgcacaa	ogtgtgggcc	accoacgcot	gagtgaccac	agadadaaad
241	occcaggaga	tegtgotggg	caacgtgacc	gagaacttca	acatgtggaa	gaacgacatg
301	googacoaga	tgcacgagga	cgtgatcagc	ctgtgggacc	agagcotgaa	gocatgagtg
361	aagctgacco	coctgtgagt	gacoctgaac	tgcaccgaca	ccaacgtgac	oggcaaccgc
		gcaacagcac				
		gcagcttcaa				
		cotgeccoaa				
601	googgotaog	ccatcctgaa	gtgcaacaac	aagacottca	acggcaccgg	occotgotac
661	aacgtgagca	ccgtgcagtg	caccacggc	atcaagcccg	tggtgagcac	ccagctgotg
		goctggooga				
781	accaagacca	tcatcgtgca	cctgaacgag	agcgtggaga	tcaactgcac	ccgccccaac
		gcaagagcgt				
		acatcogcca				
		tgatgaagaa				
		gcggcgacct				
		acaccagcaa				
		gcaacagcag				
		agggcgtggg				
		acatcaccgg				
		cattacgaca				
		aggtggtgga				
		agcgcgagaa				
		gcagcaccat				
1561		gcatcgtgca				
1621		agctgaccgt				
		tgaaggacca				
		ccgtgccctg				
		cctggatgca				
		aggacagcca				
		acaacctgtg	gaactggtte	gacaccagca	accygoodlg	gcacaccpaa
TART	ctogag					

Figure 8

### gp140mod.TV1.mut7.delV2

1 gaattoatgo gogtgatggg cacccagaag aactgcoago agtggtggat otggggoatc 61 ctgggcttot ggatgotgat gatotgcaso acogaggaco tgtgggtgac ogtgtactac 121 ggogtgocog tgtggogoga ogccaagacc accetgttot gogccagoga ogccaaggce 181 tacgagaccg aggtgcacaa ogtgtgggcc acccaogcct gogtgcccao cgaccccaac 241 ccccaggaga tegtgetggg caaogtgace gagaacttea acatgtggaa gaacgacatg 301 geogaccaga tgeaegagga ogtgateage etgtgggaee agageetgaa gecetgegtg 361 aagetgacco ecetgtgegt gaccetgaac tgoacogaca coaaogtgac oggeaacege 421 accetgacce goaacagcac caacaacacc aaceggoacce goatctacaa catogaggag 481 atgaagaact goagotteaa ogcoggegeo ggeogeetga toaactgeaa caccageace 541 atoacccagg cotgocccaa ggtgagctte gaccccatee ceatecacta etgegecece 601 geoggetacg ceateetgaa gtgcaacaac aagacettea aeggeaeegg eccetgetae 661 aacgtgagca cogtgcagtg cacccacggc atcaagccog tggtgagcac coagctgctg 721 ctgaacggca gcctggccga ggagggcatc atcatccgca gcgagaacct gaccgagaac 781 accaagacca teategtgea cetgaacgag agogtggaga teaactgeac cegecceaac 841 aacaacacco gcaagagogt gogoatogge cooggocagg cottotacge caccaacgae 901 gtgatoggca acatcogcca ggcccactgc aacatcagca cogaccgctg gaacaagacc 961 ctgcagcagg tgatgaagaa gctgggcgag cacttcccca acaagaccat coagttcaag 1021 coccaegoog geggegacet ggagateace atgeacaget teaactgeeg eggegagtte 1081 ttetactgea acaccageaa cetgtteaac ageacetace acageaacaa eggeacetae 1141 aagtacaacg gcaacagcag cagccccate accetgcagt gcaagatcaa gcagatcgtg 1201 cgcatgtggc agggcgtggg ccaggccacc tacgccccc ccatogccgg caacatcacc 1261 tgccgcagca acateacogg catectgetg accegegacg geggetteaa caccaccaac 1321 aacaccgaga cetteegeec eggeggegge gacatgegeg acaactggeg eagegagetg 1381 tacaagtaca aggtggtgga gatcaagccc otgggcatcg cccccaccaa ggccatcagc 1441 agogtggtgc agagogagaa gagogoogtg ggoatoggog cogtgttoot gggottootg 1501 ggogcogcog gcagcaccat gggcgocgcc agcatcaccc tgaccgtgca ggcccgccag 1561 ctgctgagog gcatcgtgca gcagcagagc aacctgctga aggccatcga ggcccagcag 1621 cacatgotge agetgacegt gtggggcate aageagetge aggecegegt getggecate 1681 gagogotaco tgaaggacca geagetgetg ggeatetggg getgeagegg cegeetgate 1741 tgcaccaccg ccgtgccctg gaacagcagc tggagcaaca agagcgagaa ggacatotgg 1801 gacaacatga cotggatgca gtgggaccgc gagatcagca actacacogg cotgatctac 1861 aacctgctgg aggacagcca gaaccagcag gagaagaacg agaaggacct gotggagctg 1921 gacaagtgga acaacctgtg gaactggttc gacatcagca actggccctg gtacatctaa 1981 otogag

Figure 9

### FIGURE 10 gp160mod.Q23-17

1	ATGCGCGTGA	TGGGCATCCA	GCGCAACTGC	CAGCACCTGC	TGACCTGGGG	CDTCDTCDTC
61	CTGGGCACCA	TCATCTTCTG	CAGCGCCGTG	GAGAACCTGT	, GGGAGACCG4	GTACTACGGC
121	GTGCCCGTGT	GGCGCGACGC	CGACACCACC	CTGTTCTGCG	CCAGCGACGG	GINCINCGGC
181	GAGACCGAGA	AGCACAACGT	GTGGGCCACC	CACGCCTGCG	TGCCCACCCA	CCCCAACCCTAC
241	CAGGAGATCO	ACCTGGACAA	CGTGACCGAG	AAGTTCAACA	TOTOCOLOCUA	CARCAMOCOC
301	GAGCAGATGC	ACACCGACAT	CATCAGCCTG	TEGENCON	CCCTCTTCCC	CMCCCMCito
361	CTGACCCCCC	TGTGCGTGAC	CCTGCACTGC	ACCAACGTGA	CCTGRAGGG	CAGGAGGAAG
421	GACCGCGAGG	GCCTGAAGAA	CTGCAGCTTC	AACATCACCA	CCAGCGIGAA	CACCACCGGC
481	CAGAAGGTGT	ACAGCCTGTT	CTACCGCCTG	GACATCGTGC	CCGRGCIGCG	CARCAAGUGU
541	AGCGAGTACC	GCCTGATCAA	CTGCAACACC	AGCGCCATCA	CCCICACCAC	GRACUAGGGC
601	AGCTTCGAGC	CCATCCCCAT	CCACTACTEC	ACCCCCCCCC	DT2220000222	CCCCAAGGTG
661	AAGGACGAGG	GCTTCAACGG	CACCGGCCTG	TGCAAGAACG	TGAGCACCC	CCTGAAGTGC
721	CACGGCATCA	AGCCCGTGGT	GAGCACCCAG	CTGCTGCTGA	ACGGCAGCCT	GCCCCACACC
187	AACATCACCA	TCCGCAGCGA	GAACATCACC	AACAACGCCA	AGATCATCAT	CCTCCACCTC
841	GTGCAGCCCG	TGACCATCAA	GTGCATCCGC	CCCAACAACA	ACACCCCCAA	COLOCAGCIG
901	ATCGGCCCCG	GCCAGGCCTT	CTACGCCACC	GGCGACATCA	TCGGCGACAT	CCCCCACCCC
901	CACTGCAACG	TGACCCGCAG	CCGCTGGAAC	AAGACCCTGC	AGGAGGTGGC	CCACAACCTC
1021	CGCACCTACT	TCGGCAACAA	GACCATCATC	TTCGCCAACA	GCAGCGGCGG	CGACCTCCAC
TORT	ATCACCACCC	ACAGCTTCAA	CTGCGGCGGC	GAGTTCTTCT	ACTGCAACAC	CACCCCCCCC
TTAT	TTCAACAGCA	CCTGGTACGT	GAACAGCACC	TGGAACGACA	CCGACAGCAC	CCACCACACA
TZOT	AACGACACCA	TCACCCTGCC	CTGCCGCATC	AAGCAGATCA	TCAACATCTC	CCNCCCCCCC
1201	GGCCAGGCCA	TGTACGCCCC	CCCCATCCCC	GGCGTGATCA	AGTGCGAGAG	CAACAMCAGG
TOST	GGCCTGCTGC	TGACCCGCGA	CGGCGGCAAG	GACAACAACG	TGDACCACAC	CTTCCCCCCC
1381	GGCGGCGCG	ACATGCGCGA	CAACTGGCGC	AGCGAGCTGT	<b>みぐみみごでみぐみ</b> れ	CCTCCTCCAC
T44T	ATCGAGCCCC	TGGGCGTGGC	CCCCACCCGC	GCCAAGCGCC	CCCTCCTCCA	CCCCCACAAC
TOOT	CGCGCCGTGG	GCATCGGCGC	CGTGTTCCTG	GGCTTCCTGG	GCGCCGCCGG	CACCACCAMC
T20T	GGCGCCACCA	GCATCACCCT	GACCGTGCAG	GCCCGCCAGC	TECTEACCEC	CATCCTCCAC
1051	CAGCAGAACA	ACCTGCTGCG	CGCCATCGAG	GCCCAGCAGC	ACCTGCTGAA	CCTCACCCTC
T 08T	TGGGGCATCA	AGCAGCTGCA	GGCCCGCGTG	CTGGCCGTGG	AGCGCTACCT	GCCCCACCAC
1/41	CAGCTGCTGG	GCATCTGGGG	CTGCAGCGGC	AAGCTGATCT	GCACCACCAA	CGTGCCCTCC
1801	AACAGCAGCT	GGAGCAACAA	GAGCCTGGAC	GAGATCTGGA	ACAACATGAC	CTGGCTGCAG
1001	TGGGACAAGG	AGATCAACAA	CTACACCCAG	CTGATCTACC	GCCTGATCGA	GGAGAGCCAG
1921	AACCAGCAGG	AGAAGAACGA	GAAGGAGCTG	CTGGAGCTGG	ACAAGTGGGC	CAACCTGTGG
2041	AGCTGGTTCG	ACATCAGCAA	CTGGCTGTGG	TACATCAAGA	TCTTCATCAT	CATCGTGGGC
2101	GGCCTGATCG	GCCTGCGCAT	CGTGTTCGCC	GTGCTGAGCG	TGATCAACCG	CGTGCGCCAG
2101	GGCTACAGCC	CCCTGAGCTT	CCAGACCCAC	ACCCCCAACC	CCCGCGGCCT	GGACCGCCCC
2221 2101	CCCTTTCCTCC	AGGAGGAGGA	CGGCGAGCAG	GGCCGCGGCC	GCAGCATCCG	CCTGGTGAGC
2221	COCCCCCACO	CCCTGGCCTG	GGACGACCTG	CGCAGCCTGT	GCCTGTTCAG	CTACCACCGC
2201	OT GCGCGACT.	TCATCCTGAT	CGCCGCCCGC	ACCGTGGAGC	TGCTGGGCCA	CAGCAGCCTG
2341	CCCCCCCACC	GCCTGGGCTG	GGAGGGCATC	AAGTACCTGT	GGAACCTGCT	GAGCTACTGG
2401	GCCTCGACCC	TGAAGATCAG	CGCCATCAAC	CIGGIGGACA	CCATCGCCAT	CGCCGTGGCC
2521	GGCIGGWCCG	ACCGCGTGAT TCCGCCAGGG	CGAGATCGCC	CAGCGCATCG	GCCGCGCCAT	CCTGCACATC
2921	CCCGTGCGCA	TCCGCCAGGG	CCTGGAGCGC	GCCCTGCTGT	AA	

FIGURE 11 gp160mod.98UA0116

1	ATGAAGGCCC	GCGGCATGCA	GCGCAACTAC	CAGCACCTGT	GGCGCTGGGG	CACCATGCTG
61	TTCTGGATGA	TCATCATGTG	CAAGGCCGCC	GAGAACCTGT	GGGTGACCGT	GTACTACGGC
121	GTGCCCGTGT	GGCGCGACGC	CGAGACCACC	CTGTTCTGCG	CCAGCGACGC	CARGGCCTAC
181	GACAAGGAGG	TGCACAACGT	GTGGGCCACC	CACGCCTGCG	TGCCCACCGA	CCCCGACCCC
241	CAGGAGATCA	TCCTGGAGAA	CGTGACCGAG	AAGTTCAACA	TGTGGAAGAA	CARCATEGTE
301	GAGCAGATGC	AGACCGACAT	CATCAGCCTG	TGGGACCAGA	GCCTGAAGCC	CTGCGTGDAG
361	CTGACCCCCC	TGTGCGTGAC	CCTGAACTGC	GCCGGCCCCA	GCAGCAACAA	CAGCAACGTG
421	AACAGCAACA	GCAACGACAA	CTGGAGCGAG	GAGATGAAGA	ACTGCAGCTT	CAACATGACC
481	ACCGAGCTGC	GCGACAAGCG	CAAGACCGTG	CACAGCCTGT	TCTACAAGCT	GGACATCGTG
541	AGCACCGGCA	GCAACGACAG	CCGCCAGTAC	CGCCTGATCA	ACTGCAACAC	CAGCGCCATG
601	ACCCAGGCCT	GCCCCAAGGT	GACCTTCGAG	CCCATCCCCA	TCCACTACTG	CGCCCCCCCCC
661	GGCTTCGCCA	TCCTGAAGTG	CAAGGACACC	AACTTCACCG	GCACCGGCCC	CTGCAAGGAC
721	GTGAGCACCG	TGCAGTGCAC	CCACGGCACC	AAGCCCGTGG	TGAGCACCCA	GCTGCTGCTG
781	AACGGCAGCC	TGGCCGAGAA	GGAGGTGATG	ATCCGCAGCG	AGAACATCAC	CGACAACGGC
841	AAGATCATCA	TCGTGCAGCT	GACCGAGCCC	GTGAACATCA	CCCGCATCCG	CCCCGGCGAG
901	AACAAGCGCA	CCAGCATCCG	CATCGGCCCC	GGCCAGACCT	TCTACGCCAC	CGGCGACGTG
961	ATCGGCGACA	TCCGCAAGGC	CTACTGCAAC	GTGAGCCGCG	CCGCCTGGAA	CAGCACCCTG
1021	CAGAAGATCA	GCACCCAGCT	GCGCCAGTAC	TTCAACAACA	AGACCATCAT	CTTCAAGAAC
1081	AGCAGCGGCG	GCGACCTGGA	GGTGACCACC	CACAGCTTCA	ACTGCGGCGG	CGAGTTCTTC
1141	TACTGCAACA	CCACCGACCT	GTTCAACAGC	ACCTGGAACG	AGCACGGCCC	CGTGACCAAC
1201	AGCACCATGG	CCAACGGCAC	CATCACCCTG	CCCTGCCGCA	TCAAGCAGAT	CATCAACATG
1261	TGGCAGCGCG	TGGGCCAGGC	CATGTACGCC	CCCCCCATCG	AGGGCAACAT	CCCCTCCGAG
1321	AGCAACATCA	CCGGCCTGCT	GCTGACCCGC	GACGGCGGCA	GCGGCGCCAA	CAGCAGCAAG
1381	GAGACCTACC	GCCCCATCGG	CGGCAACATG	CGCGACAACT	GGCGCAGCGA	GCTGTACAAG
1441	TACAAGGTGG	TGAAGATCGA	GCCCATCGGC	GTGGCCCCCA	CCAAGGCCAA	GCGCCGCGTG
1501	GTGGAGCGCG	AGAAGCGCGC	CATCGGCCTG	GGCGCCGCCT	TCCTGGGCTT	CCTGGGCGCC
1561	GCCGGCAGCA	CCATGGGCGC	CGCCAGCATG	ACCCTGACCG	TGCAGGCCCG	CCAGCTGCTG
1621	AGCGGCAȚCG	TGCAGCAGCA	GAGCAACCTG	CTGCGCGCCA	TCGAGGCCCA	GCAGCACCTG
1681	CTGAAGCTGA	CCGTGTGGGG	CATCAAGCAG	CTGCAGGCCC	GCGTGCTGGC	CGTGGAGCGC
1741	TACCTGAAGG	ACCAGCAGCT	GCTGGGCATC	TGGGGCTGCA	GÇGGCAAGCT	GATCTGCACC
1801	ACCAACGTGC	CCTGGAACAG	CAGCTGGAGC	AACAAGAGCC	AGAGCGAGAT	CTGGGGCAAC
1861	ATGACCTGGA	TGCAGTGGGA	CCCCGAGGTG	ATCAACTACA	CCAACATCAT	CTACGACCTG
1921	ATCGAGGAGA	GCCAGAACCA	GCAGGAGAAG	AACGAGCAGG	ACCTGCTGGC	CCTGGACAAG
1981	TGGGCCAGCC	TGTGGAGCTG	GTTCGACATC	AGCAACTGGC	TGTGGTACAT	CAAGATCTTC
2041	ATCATCATCG	TGGGCGGCCT	GATCGGCCTG	CGCATCGTGT	TCGCCGTGCT	GAGCATCATC
2101	AACCGCGCCG	GCCAGGGCTA	CAGCCCCCTG	AGCCTGCAGA	CCCTGACCCC	CCACCCGAG
2161	GGCCCCGACC	GCCCGGCCG	CATCAAGGAG	GAGGGCGGCG	AGCAGGACCG	CGACCGCAGC
2221	ATCCGCCTGG	TGAGCGGCTT	CCTGGCCCTG	GCCTGGGACG	ACCTGCGCAG	CCTGTGCCTG
2281	TTCAGCTACC	GCCGCCTGCG	CGACTTCATC	AGCATCGCCG	CCCGCACCGT	GGAGCTGCTG
2341	GGCCGCAGCA	GCCTGAAGGG	CCTGCGCCTG	GGCTGGGAGG	GCCTGAAGTA	CCTGGGCAAC
2401	CTGCTGGGCT	ACCGCGGCCA	GGAGCTGAAG	AGCAGCGCCA	TCAACCTGAT	CGACACCATC
2461	GCCATCGCCG	TGGCCGGCTG	GACCGACCGC	GTGATCGAGA	TCGGCCAGCG	CTTCTGCCGC
2521	GCCATCCGCA	ACATCCCCCG	CCGCATCCGC	CAGGGCGCCG	AGCGCGCCCT	GCAGȚAA

FIGURE 12 gp160mod.SE8538

1	ATGCGCGTGA	AGGGCATCCA	GCGCAACAGC	CAGCACCTGC	TGCGCTGGGG	CACCATGATC
61	CTGGGCATGA	TCATCATCTG	CAGCACCGCC	GACAAGCTGT	GGGTGACCGT	GTACTACGGC
121	GTGCCCGTGT	GGAAGGACGC	CGAGACCACC	CTGTTCTGCG	CCAGCGACGC	CAAGGCCTAC
181	GACACCGAGG	TGCACAACGT	GTGGGCCACC	CACGCCTGCG	TGCCCACCGA	CCCCAACCCC.
241	CAGGAGCTGC	ACCTGGCCAA	CGTGACCGAG	GAGTTCAACA	TGTGGAAGAA	CAGCATGGTG
301	GAGCAGATGC	ACACCGACAT	CATCAGCCTG	TGGGACCAGA	GCCTGATCCC	CTGCGTGAAG
361	CTGACCCCCC	TGTGCGTGAC	CCTGGAGTGC	AACGACTACA	ACTACAACGT	GACCAACAGC
421	AGCCACAGCT	ACAACGTGAC	CAACATGCAG	GAGATGAAGA	ACTGCAGCTT	CAACGTGACC
481	ACCGAGCTGC	GCGACAAGCG	CCAGAAGGTG	ACCAGCCTGT	TCTACAAGCT	GGACGTGGTG
541	CCCATCGGCG	GCAACGACAC	CAACAGCACC	CAGTACCGCC	TGATCAACTG	CAACACCAGC
601	GCCATCACCC	AGGCCTGCCC	CAAGGTGACC	TTCGAGCCCA	TCCCCATCCA	CTACTGCGCC
661	CCCGCCGGCT	TCGCCATCCT	GAAGTGCCGC	GACGAGAACT	TCAACGGCAC	CGGCCCCTGC
721	AAGAACGTGA	GCACCGTGCA	GTGCACCCAC	GGCATCAAGC	CCGTGGTGAG	CACCCAGCTG
781	CTGCTGAACG	GCAGCCTGGC	CCGCGAGAAG	GTGATGATCC	GCAGCGAGAA	CATCACCAAC
841	AACGTGAAGA	ACATCATCGT	GCAGCTGAAG	GAGCCCGTGG	AGATCAACTG	CACCCGCCCC
901	GGCAACAACA	CCCGCAAGAG	CATCCGCATC	GGCCCCGGCC	AGGCCTTCTA	CGCCACCGGC
961	GAGGTGATCG	GCGACATCCG	CCAGGCCCAC	TGCAACGTGA	GCCGCGCCAA	GTGGAACAAG
1021	ACCCTGCACG	AGGTGGCCAA	GCAGCTGCGC	ACCTACTTCA	ACAACAAGAC	CATCATCTTC
1081	ACCAACAGCA	GCGGCGGCGA	CCTGGAGATC	ACCACCCACA	CCGTGAACTG	CGGCGGCGAG
1141	TTCTTCTACT	GCAACACCAG	CGGCCTGTTC	AACAGCACCT	GGAGCAGCAA	CGCCAGCGAG
1201	CCCATGAGCA	ACAGCACCGA	GAGCAACGAC	ACCATCACCC	TGCAGTGCCG	CATCCGCCAG
1261	ATCATCAACA	TGTGGCAGCG	CGCCGGCAAG	GCCATCTACG	CCCCCCCAT	CCCCGGCATC
1321	ATCAAGTGCG	TGAGCAACAT	CACCGGCCTG	ATCCTGACCC	GCGACGGCGG	CAGCAACAAC
1381	AGCACCAACG	AGACCTTCCG	CCCCGGCGGC	GGCGACATGC	GCGACAACTG	GCGCAGCGAG
1441	CTGTACAAGT	ACAAGGTGGT	GAAGATCGAG	CCCCTGGGCG	TGGCCCCCAC	CAAGGCCAAG
1501	CGCCGCGTGG	TGGAGCGCGA	GAAGCGCGCC	ATCGGCATCG	GCGCCGTGTT	CATCGGCTTC
1561	CTGGGCGCCG	CCGGCAGCAC	CATGGGCGCC	GCCAGCATCA	CCCTGACCGT	GCAGGCCCGC
1621	CAGCTGCTGA	GCGGCATCGT	GCAGCAGCAG	AGCAACCTGC	TGCGCGCCAT	CGAGGCCCAG
1681	CAGCACCTGC	TGAAGCTGAC	CGTGTGGGGC	ATCAAGCAGC	TGCAGGCCCG	CGTGCTGGCC
1741	GTGGAGCGCT	ACCTGAAGGA	CCAGCAGCTG	CTGGGCATCT	GGGGCTGCAG	CGGCAAGCTG
1801	ATCTGCACCA	CCAACGTGCC	CTGGAACAGC	AGCTGGAGCA	ACAAGAGCCA	GAGCGAGATC
1861	TGGGACAACA	TGACCTGGCT	GCAGTGGGAC	AAGGAGATCA	GCAACTACAC	CCAGACCATC
1921	TACCGCCTGA	TCGAGGAGAG	CCAGAACCAG	CAGGAGAAGA	ACGAGCAGGA	CCTGCTGGCC
1981	CTGGACAAGT	GGGCCAGCCT	GTGGAACTGG	TTCGACATCA	GCCGCTGGCT	GTGGTACATC
2041	CGCATCTTCA	TCATGATCGT	GGGCGGCCTG	ATCGGCCTGC	GCATCGTGTT	CGCCGTGCTG
2101	AGCGTGATCA	ACCGCGTGCG	CCAGGGCTAC	AGCCCCTGA	GCTTCCAGAT	CCACACCCCC
2161	AACCCCGGCG	ACCTGGACCG	CCCCGGCCGC	ATCGAGGAGG	AGGGCGGCGA	GCAGGACCGC
	GGCCGCAGCA	TCCGCCTGGT	GAGCGGCTTC	CTGGCCCTGG	CCTGGGACGA	CCTGCGCAGC
2281	CTGTGCCTGT	TCAGCTACCA	CCGCCTGCGC	GACTTCATCC	TGATCGCCGC	CCGCACCGTG
2341	GAGCTGCTGG	GCCAGCGCGG	CTGGGAGGGC	CTGAAGTACC	TGTGGAACCT	GCTGGTGTAC
2401	TGGATCCGCG	AGCTGAAGAT	CAGCGCCATC	AGCCTGCTGG	ACACCATCGC	CATCGCCGTG
2461	GCCGGCTGGA	CCGACCGCGT	GATCGAGCTG	GGCCAGCGCC	TGTGCCGCGC	CATCCTGCAC
2521	ATCCCCGTGC	GCATCCGCCA	GGGCTTCGAG	CGCGCCCTGC	TGTAA	

### FIGURE 13

gp160mod.UG031

gp160mod.	UG031					
1	ATGCGCGTGC	GCGGCATCCA	GACCAGCTGG	CAGAACCTGT	GGCGCTGGGG	СУССУДСУДС
61	CTGGGCATGC	TGATGATCTA	CAGCGCCGCC	GAGAACCTGT	GGGTGACCGT	GTACTACGGC
121	GTGCCCGTGT	GGAAGGACGC	CGAGACCACC	CTGTTCTGCG	CCAGCGACGC	CARGCCTAC
-181	GACACCGAGG	TGCACAACGT	GTGGGCCACC	CACGCCTGCG	TGCCCACCGA	CCCCAACCCC
241	CAGGAGATCC	ACCTGGAGAA	CGTGACCGAG	GACTTCAACA	TGTGGAAGAA	CAACATGGTG
301	GAGCAGATGC	ACACCGACAT	CATCAGCCTG	TGGGACCAGA	GCCTGAAGCC	CTCCCTCCAC
361	CTGACCCCCC	TGTGCGTGAC	CCTGGACTGC	CTGAACGCCA	CCCTGAACGC	CACCECCCC
421	AACGTGACCA	ACGACATGGA	GGGCGAGATG	AAGAACTGCA	GCTACAACAT	CACCACCGAG
481	CTGAAGGACA	AGAAGCAGCA	GGTGTACAGC	CTGTTCTACA	AGCTGGACGT	GGTGCAGATC
541	AACGAGAAGA	ACAAGACCAA	CAAGTACCGC	CTGATCAACT	GCAACACCAG	CGCCATCACC
601	CAGGCCTGCC	CCAAGGTGAG	CTTCGAGCCC	ATCCCCATCC	ACTACTGCGC	CCCCGCCGGC
661	TTCGCCATCC	TGAAGTGCAA	GGACACCGAG	TTCAACGGCA	CCGGCCCCTG	CAAGAACGTG
. 721	AGCACCGTGC	AGTGCACCCA	CGGCATCCGC	CCCGTGATCA	GCACCCAGCT	GCTGCTGAAC
781	GGCAGCCTGG	CCGAGGGCGG	CATCCAGATC	CGCAGCGAGA	ACATCACCAA	CAACGCCAAG
841	ACCATCATCG	TGCAGCTGGA	CAAGGCCGTG	AAGATCAACT	GCACCCGCCC	CAACAACAAC
901	ACCCGCAAGA	GCGTGCGCAT	CGGCCCCGGC	CAGGCCTTCT	ACGCCACCGG	CGACATCATC
961	GGCGACATCC	GCCAGGCCCA	CTGCAACGTG	AGCCGCGCCA	AGTGGAACGA	GACCCTGCGC
1021	GGCATCGCCA	AGAAGCTGAG	CGAGCACTTC	AAGAACAAGA	TCATCATCTT	CCAGAAGAGC
1081	AGCGGCGCG	ACATCGAGAT	CACCACCCAC	AGCTTCAACT	GCGGCGGCGA	GTTCTTCTAC
1141	TGCAACACÇA	GCGGCCTGTT	CAACGGCACC	TGGAAGCCCA	ACAGCACCGA	GAGCAACAAC
1201	ACCAÇCCCCA	ACGACACCAT	CACCCTGACC	TGCCGCATCA	AGCAGATCAT	СРУСТВЕСТВ
1261	CAGAAGGTGG	GCCAGGCCAT	GTACGCCCCC	CCCATCCAGG	GCGTGATCCG	CTGCGAGAGC
1321	AACATCACCG	GCCTGCTGCT	GACCCGCGAC	GGCGGCATCA	ACAGCATCAA	CGAGACCTTC
. 1381	CGCCCCGGCG	GCGGCAACAT	GCGCGACAAC	TGGCGCAGCG	AGCTGTACAA	GTACAAGGTG
1441	GTGAAGATCG	AGCCCCTGGG	CGIGGCCCCC	AGCCGCGCCA	AGCGCCGCGT	GGTGGAGCGC
1501	GAGAAGCGCG	CCGTGGGCAT	CGGCGCCGTG	TTCCTGGGCT	TCCTGGGCGC	CGCCGGCAGC
1561	ACCATGGGCG	CCGCCAGCAT	CACCCTGACC	GCCCAGGCCC	GCCAGCTGCT	GAGCGGCATC
1621	GTGCAGCAGC	AGAGCAACCT	GCTGCGCGCC	ATCAAGGCCC	AGCAGCACAT	GCTGAAGCTG
1741	ACCGTGTGGG	GCATCAAGCA	GCTGCAGGCC	CGCGTGCTGG	CCGTGGAGCG	CTACCTGAAG
1/41	GACCAGCAGC	TGCTGGGCAT	CTGGGGCTGC	AGCGGCAAGC	TGATCTGCAC	CACCAACGTG
1001	CCCTGGAACA	ACAACCACAG	CAACAAGAGC	ATGAACGAGA	TCTGGGACAA	CATGACCTGG
1001	CTGCAGTGGG	AGAAGGAGAT	CAGCAACTAC	ACCCAGCTGA	TCTACAACCT	GATCGAGGAG
1921	AGCCAGAACC	CCTTCCACAT	GAACGAGCAG	GACCTGCTGG	CCCTGGACAA	GTGGGCCAGC
. 2041	CTGTGGAACT GTGGGCGGCC	TCATCCCCCTT	CAGCCGCTGG	CTGTGGTACA	TCAAGATCTT	CATCATGATC
2101	CGCCAGGGCT	PCACCCCCC	GACCERCCAC	TTCGCCGTGC	TGAGCGTGAT	CAACCGCGTG
2161	CGCCTGGGCC	CONTCCCCCI	CONCECCO	CACCACCC	CCAACCCCGA	GGAGCCCGAC
2221	GTGAGCGGCT	TCCTCCCCCT	GGCCTGGGAC	CACCOCCCCA	GCGACCGCAG	CATCCGCCTG
2281	CACCGCCTGC	GCGACTTCAT	CAGCATCCCC	GCCCCCACCCA	TCGACCTCCCT	GTTCAGCTAC
2341	AGCCTGAAGG	GCCTGCGCCT	GGGCTGGGAG	CCCCCCACCG	ACCRORGON	GGGCCACAGC
2401	TACTGGGGCC	TGGAGCTGAA	GACCAGCGCC	GTGDACCTGC	TCCIGIGGAA	CCCCATCCCC
2461	GTGGCCGGCT	GGACCGACCG	CGTGATCGAG	ATCGCCCACC	CCATCTTCCC	CCCCATCGCC
2521	AACATCCCCC	GCCGCATCCG	CCAGGGCCTG	GIGCGCCGC	<b>心でになるのとり</b>	CGCCATCCTG
				7.19090906	TOCICIUM .	

WO 2005/027840 PCT/US2004/030233

FIGURE 14 gp160mod.92UG001

1	ATECGCGTGC	CCCACATICCA	CCCCNNCMNC	OMC MCC COMC M	~~~~~~	
61	CACCCCAACC	TCATCA CCTA	GUGUAACTAC	CIGIGCCIGI	GGCGCTGGGG	CATCATGCTG
121	CIGGGCAIGC	CCARCCTA	CAGCGTGGCC	GAGAAGAAGT	GGGTGACCGT	GTACTACGGC
101	AACACCCACC	MCCA CA A CAM	CACCACCACC	CTGTTCTGCG	CCAGCGACGC	CAAGAGCTAC
241	CCCCACAMOG	ACCHICANCAT	CTGGGCCACC	CACGCCTGCG	TGCCCACCGA	CCCCAACCCC
541	CACCACATCG	AGCTGGAGAA	CGTGACCGAG	AACTTCAACA	TGTGGAAGAA	CAACATGGTG
301	CECACAGATGC	MCGAGGACAT	CATCAGCCTG	TGGGACCAGA	GCCTGAAGCC	CTGCGTGAAG
301	AAGAMGAGG	TGTGCGTGAC	CCTGAACTGC	ACCGACGCCC	GCCGCAACGA	GACCCGCAAC
421	AACATCACCG	GCATGGAGAA	CAACGACCAG	ATCGAGATGA	AGAACTGCAG	CTTCAACATC
481	ACCACCAAGC	TGATCGACAA	GAAGAAGCAG	GTGCACGCCC	TGTTCTACCG	CCTGGACGTG
541	GTGCAGATCG	ACAACGACAC	CAGCAACAGC	AACTACAGCA	ACTACCGCCT	GATCAACTGC
601	AACACCAGCG	CCATCACCCA	GGCCTGCCCC	AAGGTGACCT	TCGAGCCCAT	CCCCATCCAC
661	TACTGCGCCC	CCGCCGGCTT	CGCCATCCTG	AAGTGCCGCG	ACAAGAAGTT	CAACGGCACC
721	GGCCCCTGCA	AGAACGTGAG	CACCGTGCAG	TGCACCCACG	GCATCCGCCC	CGTGGTGAGC
781	ACCCAGCTGC	TGCTGAACGG	CAGCCTGGCC	GAGGAGGAGA	TCATCATCCG	CAGCGAGAAC
841	CTGACCAACA	ACGCCAAGAC	CCTGATCGTG	CAGCTGAACG	AGAGCGTGGA	GATCAACTGC
901	ACCCGCCCCT	ACTACAACCA	GATCCGCCAG	CGCACCAGCA	TCGGCCAGGG	CCAGGCCCTG
961	TACACCACCC	GCGTGACCGG	CGACATCCGC	AAGGCCTACT	GCAACATCAG	CAAGGCCGGC
1021	TGGAACAAGA	CCCTGCAGCA	GGTGGCCAAG	AAGCTGGGCG	ACCTGTTCAA	CCAGACCACC
1081	ATCATCTTCA	AGCCCAGCAG	CGGCGGCGAC	CCCGAGATCA	CCACCCACAG	CTTCAACTGC
1141	GGCGGCGAGT	TCTTCTACTG	CAACACCAGC	AAGCTGTTCA	ACAGCGCCTG	GAACGACAGC
1201	ACCTGGAACA	TCGGCAACAA	CAACACCGGC	AGCGACAACG	AGACCATCAT	CATCCCCTGC
1261	CGCATCAAGC	AGATCATCAA	CATGTGGCAG	GGCGTGGGCA	AGGCCATGTA	CGCCCCCCC
1321	ATCGAGGGCT	GGATCAACTG	CGCCAGCAAC	ATCACCGGCC	TGCTGCTGGT	GCGCGACGGC
1381	GGCGGCGCCA	ACGACAGCCA	GAACGAGACC	TTCCGCCCCC	AGGGCGGCGA	CATGCGCGAC
1441	AACTGGCGCA	GCGAGCTĠTA	CAAGTACAAG	GTGGTGAAGA	TCGAGCCCCT	GGGCATCGCC
1501	CCCACCAAGG	CCAAGCGCCG	CGTGGTGGAG	CGCGAGAAGC	GCGCCATCGG	CCTGGGCGCC
1561	ATGTTCCTGG	GCTTCCTGGG	CGCCGCCGGC	AGCACCATGG	GCGCCGCCAG	CCTGACCCTG
1621	ACCGTGCAGG	CCCGCCAGCT	GCTGAGCGGC	ATCGTGCAGC	ACCAGAACAA	CCTGCTGATG
1681	GCCATCGAGG	CCCAGCAGCA	CCTGCTGCAG	CTGACCGTGT	GGGGCATCAA	GCAGCTGCAG
1741	GCCCGCATCC	TGGCCGTGGA	GCGCTACCTG	CAGGACCAGC	AGCTGCTGGG	CAGCTGGGGC
1801	TGCAGCGGCC	GCCACATCTG	CACCACCACC	GTGCCCTGGA'	ACAGCAGCTG	GAGCAACAAG
1861	AGCATCGACG	ACATCTGGAA	CAACATGACC	TGGATGGAGT	GGGAGAAGGA	GATCGACAAC
1921	TACACCGGCG	TGATCTACCG	CCTGATCGAG	GAGAGCCAGA	CCCAGCAGGA	GAAGAACGAG
1981	CAGGAGCTGC	TGCAGCTGGA	CAAGTGGGCC	AGCCTGTGGA	ACTGGTTCAG	CATCACCAAG
2041	TGGCTGTGGT	ACATCAAGAT	CTTCATCATG	ATCGTGGGCG	GCCTGATCGG	CCTGCGCATC
2101	GTGTTCACCG	TGCTGAGCCT	GGTGAACCGC	GTGCGCCAGG	GCTACAGCCC	CCTGAGCTTC
2161	CAGACCCTGT	TCCCCGCCCC	CCGCGGCCCC	GACCGCCCCG	AGGAGATCGA	GGAGGGCGGC
2221	GGCGAGCAGG	GCCGCGGCCG	CAGCACCCGC	CTGGTGAACG	GCTTCAGCAC	CCTGATCTGG
2281	GACGACCTGC	GCAACCTGTG	CCTGTTCAGC	TACCACCGCC	TGCGCGACCT	GATCCTGATC
2341	GCCACCCGCA	TCGTGGAGCT	GCTGGGCCGC	CGCGGCTGGG	AGGCCATCAA	GTACCTGTGG
2401	AACCTGCTGC	AGTACTGGAG	CCAGGAGCTG	AAGACCAGCG	CCATCAGCCT	GTTCAACGCC
2461	ACCGCCGTGG	CCGTGGCCGA	GGGCACCGAC	CGCGTGATCG	AGGTGGTGCA	GCGCTTCTTC
2521	CGCGGCATCC	TGAACGTGCC	CACCCGCATC	CGCCAGGGCC	TGGAGCGCGC	CCTGCTGTAA

FIGURE 15
gp160mod.94UG114

				CAGCACCTGT		
61				GGCAAGAGCT		
121				CTGTTCTGCG		
181	••••			CACGCCTGCG		
241				AACTTCAACA		
301				TGGGACCAGA		
361				ACCAACTGGG		
				ACCACCGAGA		
481	GTGCAGGCCC	TGTTCTACAA	GCTGGACGTG	GTGAAGATCA	ACGACAACGA	CAGCGACAAC
				AGCGCCATCA		
601	ACCTTCGAGC	CCATCCCCAT	CCACTACTGC	GCCCCCGCCG	GCTTCGCCAT	CCTGAAGTGC
				TGCAAGAACG		
				CTGCTGCTGA		
781	GAGATCATCA	TCCGCAGCGA	GAACCTGACC	AACAACGCCA	AGATCATCAT	CGTGCAGCTG
				CCCTACAACA		
901				AAGGTGATCG		
961				ACCCTGCAGC		
				AAGCCCAGCA		
				TTCTTCTACT		
				TGGCGCAGCG		
				ATCAACATGT		GGGCAAGGCC
				AACTGCAGCA		
				AGCCAGAACG		
				CTGTACAAGT	ACAAGGTGGT	GAAGCTGGAG
				CGCCGCGTGG		GAAGCGCGCC
				CTGGGCACCG		CATGGGCGCC
1561	GTGAGCCTGA			CAGGTGCTGA	GCGGCATCGT	GCAGCAGCAG
1621	AACAACCTGC			CAGCACCTGC		CGTGTGGGGC
	ATCAAGCAGC			GTGGAGAGCT		
				ATCTGCACCA		CTGGAACAGC
				TGGAACAACA		GGAGTGGGAG
				TACAGCCTGC		CCAGATCCAG
1921	CAGGAGAAGA	ACGAGCAGGA	GCTGÇTGAAG	CTGGACACCT	GGGCCAGCCT	GTGGAACTGG
				AAGATCTTCA		
				AGCGTGGTGA		
				GCCCCCGCG		
				GGCCGCAGCA		
2221	AGCGCCCTGA			CTGTGCCTGT		CCGCCTGCGC
	GACCTGATCC			GAGCTGCTGG		
	ATCAAGTACC			TGGATCCAGG		
				GCCGAGGGCA		
			CATCCTGAAC	ATCCCCGTGC	GCATCCGCCA	GGGCCTGGAG
2521	CGCGCCCTGC	TGTAA				•

FIGURE 16
gp160mod.ELI

1	ATRCGCGCCCC	GCGGCATCGA	GCGCAACTGC	CAGAACTGGT	GGAAGTGGGG	CATCATGCTG
					GGGTGACCGT	
121					CCAGCGACGC	
					TGCCCACCGA	
241					TGTGGAAGAA	
301					GCCTGAAGCC	
361	CTGACCCCCC				TGCGCAACAA	
421	GGCAACAACG				GCAGCTTCAA	
. 481					ACCGCCTGGA	
541		ACAGCAGCAC			TGATCAACTG	
601					TCCCCATCCA	
661	CCCGCCGGCT				TCAACGCCAC	+
721					CCGTGGTGAG	
781	CTGCTGAACG	GCAGCCTGGC	CGAGGAGGAG	GTGATCATCC	GCAGCGAGAA	CCTGACCAAC
841	AACGCCAAGA	ACATCATCGC	CCACCTGAAC	GAGAGCGTGA	AGATCACCTG	CGCCCGCCCC
901	TACCAGAACA	CCCGCCAGCG	CACCCCCATC	GGCCTGGGCC	AGAGCCTGTA	CACCACCCGC
961	AGCCGCAGCA	TCATCGGCCA	GGCCCACTGC	AACATCAGCC	GCGCCCAGTG	GAGCAAGACC
1021	CTGCAGCAGG	TGGCCCGCAA	GCTGGGCACC	CTGCTGAACA	AGACCATCAT	CAAGTTCAAG
1081	CCCAGCAGCG	GCGGCGACCC	CGAGATCACC	ACCCACAGCT	TCAACTGCGG	CGGCGAGTTÇ
1141	TTCTACTGCA	ACACCAGCGG	CCTGTTCAAC	AGCACCTGGA	ACATCAGCGC	CTGGAACAAC
					TGCAGTGCCG	
					CCCCCATCGA	
					ACGGCGGCAT	
					ACAACTGGCG	
					CCCCCACCCG	
					CCATGTTCCT	
		GCAGCACCAT				GGCCCGCCAG
		GCATCGTGCA			GCGCCATCGA	
					AGGCCCGCAT	
					GCTGCAGCGG	
1801					GCAGCCTGAA	
		• •			ACTACACCGG	
		CCAGCCTGTG			AGAAGGAGCT AGTGGCTGTG	
1981		TGATCATCGG		GGCCTGCGCA		CGTGCTGAGC
		GCGTGCGCCA			TCCAGACCCT	
					GCGGCGAGCG	
		GCCTGCTGAA				GCGCAGCCTG
2281		GCTACCACCG				CATCGTGGAG
2341		GCCGCGGCTG			GGAACCTGCT	
					CCATCGCCAT	
2461					GCCGCGCCGT	
		TCCGCCAGGG				COLUMNICATO
2021	CCCCCCCC	10000000000	COLOGRACOC		****	

FIGURE 17
gp160mod.93IN101

1 ATGCGCGTGC GCGCACCCT GCGCAACTAC CAGCAGTGGT GGATCTGGGG CGTGCTGGGC 61 TTCTGGATGC TGATGATCTG CAACGGCGGC GGCAACCTGT GGGTGACCGT GTACTACGGC
121 GTGCCCGTGT GGAAGGAGGC CAAGACCACC CTGCTGTGCG CCAGCGACGC CAAGGCCTAC
181 GAGCGCGAGG TGCACAACGT GTGGGCCACC CACGCCTGCG TGCCCACCGA CCCCAACCCC 241 CAGGAGATCG TGCTGGGCAA CGTGACCGAG AACTTCAACA TGTGGAAGAA CGACATGGTG 301 GACCAGATGC ACGAGGACGT GATCAGCCTG TGGGACCAGA GCCTGAAGCC CTGCGTGAAG 361 CTGACCCCCC TGTGCGTGAC CCTGGAGTGC CGCAACGTGA GCCGCAACGT GAGCAGCTAC 421 AACACCTACA ACGGCAGCGT GGAGGAGATC AAGAACTGCA GCTTCAACGC CACCCCCGAG 481 GTGCGCGACC GCAAGCAGCG CATGTACGCC CTGTTCTACG GCCTGGACAT CGTGCCCCTG 541 AACAAGAAGA ACAGCAGCGA GAACAGCAGC GAGTACCGCC TGATCAACTG CAACACCAGC 601 GCCATCACCC AGGCCTGCCC CAAGGTGACC TTCGACCCCA TCCCCATCCA CTACTGCGCC 661 CCCGCCGGCT ACGCCATCCT GAAGTGCAAC AACAAGACCT TCAACGGCAC CGGCCCCTGC 721 AACAACGTGA GCACCGTGCA GTGCACCCAC GGCATCAAGC CCGTGGTGAG CACCCAGCTG 781 CTGCTGAACG GCAGCCTGGC CGAGGGCGAG ATCATCATCC GCAGCGAGAA CCTGACCAAC 841 AACGTGAAGA CCATCATCGT GCACCTGAAC CAGAGCGTGG AGATCGTGTG CACCCGCCCC 901 AACAACAACA CCCGCAAGAG CATCCGCATC GGCCCCGGCC AGACCTTCTA CGCCACCGGC 961 GACATCATCG GCGACATCCG CCAGGCCCAC TGCAACATCA GCCGCGACAA GTGGAACGAG 1021 ACCCTGCAGC GCGTGGGCAA GAAGCTGGCC GAGCACTTCC ACAACAAGAC CATCAAGTTC 1081 GCCAGCAGCA GCGGCGGCGA CCTGGAGATC ACCACCCACA GCTTCAACTG CCGCGGCGAG 1141 TTCTTCTACT GCAACACCAG CGGCCTGTTC AACGGCACCT ACATGCCCAC CTACATGCCC
1201 AACGGCACCG AGAGCAACAG CAACAGCACC ATCACCATCC CCTGCCGCAT CAAGCAGATC 1261 ATCAACATGT GGCAGGAGGT GGGCCGCCC ATGTACGCCC CCCCCATCGC CGGCAACATC 1321 ACCTGCACCA GCAACATCAC CGGCCTGCTG CTGGTGCACG ACGGCGGCAT CAAGGAGAAC
1381 GACACCGAGA ACAAGACCGA GATCTTCCGC CCCGGCGGCG GCGACATGCG CGACAACTGG 1441 CGCAGCGAGC TGTACAAGTA CAAGGTGGTG GAGATCAAGC CCCTGGGCGT GGCCCCCACC 1501 GCCGCCAAGC GCCGCGTGGT GGAGCGCGAG AAGCGCGCCG TGGGCATCGG CGCCGTGTTC 1561 CTGGGCTTCC TGGGCGCCGC CGGCAGCACC ATGGGCGCCG CCAGCATCAC CCTGACCGCC 1621 CAGGCCCGCC AGCTGCTGAG CGGCATCGTG CAGCAGCAGA GCAACCTGCT GCGCGCCATC 1681 GAGGCCCAGC AGCACCTGCT GCAGCTGACC GTGTGGGGCA TCAAGCAGCT GCAGACCGC 1741 GTGCTGGCCA TCGAGCGCTA CCTGAAGGAC CAGCAGCTGC TGGGCATCTG GGGCTGCAGC
1801 GGCAAGCTGA TCTGCACCAC CGCCGTGCCC TGGAACAGCA GCTGGAGCAA CAAGACCCAG 1861 AGCGAGATCT GGAACAACAT GACCTGGATG CAGTGGGACC GCGAGGTGAG CAACTACACC 1921 AACATCATCT ACAGCCTGCT GGAGGAGAGC CAGAACCAGC AGGAGAAGAA CGAGAAGGAC 1981 CTGCTGGCCC TGGACAGCTG GAAGAACCTG TGGAGCTGGT TCGACATCAC CAACTGGCTG 2041 TGGTACATCA AGATCTTCAT CATGATCGTG GGCGGCCTGA TCGGCCTGCG CATCATCTTC 2101 GCCGTGCTGA GCATCGTGAA CCGCGTGCGC CAGGGCTACA GCCCCCTGAG CTTCCAGACC 2161 CTGACCCCA ACCCCGCGG CCCCGACCGC CTGGGCCGCA TCGAGGAGGA GGGCGGCGAG 2221 CAGGACAAGG ACCGCAGCAT CCGCCTGGTG AACGGCTTCC TGGCCCTGGC CTGGGACGAC 2281 CTGCGCAACC TGTGCCTGTT CAGCTACCAC CGCCTGCGCG ACTTCATCAG CGTGGCCGCC 2341 CGCGTGGTGG AGCTGCTGGG CCGCAGCAGC TGGGAGGCCC TGAAGTACCT GGGCAGCCTG 2401 GTGCAGTACT GGGGCCTGGA GCTGAAGAAG AGCGCCATCA GCCTGTTCGA CAGCATCGCC 2461 ATCGTGGTGG CCGAGGGCAC CGACCGCATC ATCGAGCTGG TGCAGGGCTT CTGCCGCGCC 2521 ATCCGCAACA TCCCCACCCG CATCCGCCAG GGCTTCGAGG CCGCCCTGCA GTAA

FIGURE 18 gp160mod.cm235.V3con

	•					
1	ATGGATGCAA	TGAAGAGAGG	GCTCTGCTGT	GTGCTĢCTGC	TGTGTGGAGC	AGTCTTCGTT
61	TCGCCCAGCG	CTAGCAACAA	CCTGTGGGTG	ACCGTGTACT	ACGGCGTGCC	CGTGTGGCGC
121	GACGCCGACA	CCACCCTGTT	CTGCGCCAGC	GACGCCAAGG	CCCACGAGAC	CGAGGTGCAC
181	AACGTGTGGG	CCACCCACGC	CTGCGTGCCC	ACCGACCCCA	ACCCCCAGGA	GATCCACCTG
241	GAGAACGTGA	CCGAGAACTT	CAACATGTGG	AAGAACAACA	TGGTGGAGCA	GATGCAGGAG
301	GACGTGATCA	GCCTGTGGGA	CCAGAGCCTG	AAGCCCTGCG	TGAAGCTGAC	CCCCCTGTGC
361	GTGACCCTGA	ACTGCACCAA	CGCCAAGCTG	ACCAACGTGA	ACAACATCAC	CAGCGTGAGC
421	AACACCATCG	GCAACATCAC	CGACGAGGTG	CGCAACTGCA	GCTTCAACAT	GACCACCGAG
481	CTGCGCGACA	AGAAGCAGAA	GGTGCACGCC	CTGTTCTACA	AGCTGGACAT.	CGTGCCCATC
541	GAGGACAACA	AGACCAGCAG	CGAGTACCGC	CTGATCAACT	GCAACACCAG	CGTGATCAAG
601	CAGGCCTGCC	CCAAGATCAG	CTTCGACCCC	ATCCCCATCC	ACTACTGCAC	CCCCGCCGGC
661	TACGCCATCC	TGAAGTGCAA	CGACAAGAAC	TTCAACGGCA	CCGGCCCCTG	CAAGAACGTG
721	AGCAGCGTGC	AGTGCACCCA	CGGCATCAAG	CCCGTGGTGA	GCACCCAGCT	GCTGCTGAAC
781	GGCAGCCTGG	CCGAGGAGGA	GATCATCATC	CGCAGCGAGA	ACCTGACCAA	CAACGCCAAG
841	ACCATCATCG	TGCACCTGÀA	CAAGAGCGTG	GAGATCAACT	GCACCCGCCC	CAGCAACAAC
901	ACCCGCACCA	GCATCACCAT	CGGCCCCGGC	CAGGTGTTCT	ACCGCACCGG	CGACATCATC
961	GGCGACATCC	GCAAGGCCTA	CTGCGAGATC	AACGGCACCA	AGTGGAACGA	GGTGCTGACC
	CAGGTGACCG				CCATCATCTT	
1081	AGCGGCGGCG			CACTTCAACT	GCCGCGGCGA	GTTCTTCTAC
1141				TGCATCGAGA	ACGGCACCAT	GGGCGGCTGC
	AACGGCACCA			AAGCAGATCA	TCAACATGTG	GCAGGGCGCC
	GGCCAGGCCA			GGCCGCATCA	ACTGCGTGAG	CAACATCACC
	GGCATCCTGC			ATCAACACCA	CCAACGAGAC	CTTCCGCCCC
1381				AGCGAGCTGT	ACAAGTACAA	GGTGGTGCAG
1441	ATCGAGCCCC				GCGTGGTGGA	
	CGCGCCGTGG				GCGCCGCCGG	
1561	GGCGCCGCCA				TGCTGAGCGG	
	CAGCAGAGCA				ACCTGCTGCA	
1681					AGCGCTACCT	
	AAGTTCCTGG				GCACCACCGC	
	AACAGCACCT				ACAACATGAC	
1861	TGGGAGCGCG				AGATCCTGAC	
	AACCAGCAGG				ACAAGTGGGC	
	AACTGGTTCG				TCTTCATCAT	
	GGCCTGATCG				TCGTGAACCG	
	GGCTACAGCC				AGCGCGAGCC	
2161					GCAGCGTGCG	
•	GGCTTCCTGG				GCCTGTTCAG	
2281	CTGCGCGACT				TGCTGGGCCG	
2341	AAGGGCCTGC					
2401					CCACCGCCAT	
	GGCTGGACCG					CCTGCACATC
2521	CCCCGCCGCA	TCCGCCAGGG	CCTGGAGCGC	ACCCTGCTGT	AA	

FIGURE 19 gp160partialmod.cm235.V3 con

1	ATECATECAA	TGAAGAGAGG	GCTCTGCTGT	GTGCTGCTGC	TETETECACC	ACTCTTCCTT
			CTTGTGGGTT			
			TTGTGCATCA			
			CTGTGTACCC			
			TAACATGTGG			
			TCAAAGTCTA			
			TGCTAAGTTG			
			AGATGAAGTA			
			GGTCCATGCA			
			TGAGTATAGG			
			CTTTGATCCA			
			TGATAAGAAT			
			TGGAATTAAG			
			GATAATAATC			
			TAAATCTGTA			
			AGGACCAGGA			
			TTGTGAGATT			
			AGAGCACTTT			
1081			TACAATGCAT			
1141			TAATAATACT			
			ATGCAAGATA			
			TCCCATCAGT			
			TGGTGGTGCT			
			CAACTGGCGC			
			CCCCACCCGC			
			CATGATCTTC			
1561			GACCGTGCAG			
			CGCCATCGAG			
			GGCCCGCGTG			
			CTGCAGCGGC			
						CTGGATCGAG
			CTACACCAAC			
			GAAGGACCTG			
			GTGGCTGTGG			
			AATTTTTGCT			
			CCAGACCCCT			
			TGGCGAGCAA			
			GGACGATCTA			
			TGCAGCGAGG			
			GGAAGGTCTC			
			CGCTATTTCT			
			AGAAGTAGCA			
			CTTAGAAAGG			101001101111
2021	COLUGARAN	~ circucuogo	O. INGHINGG			

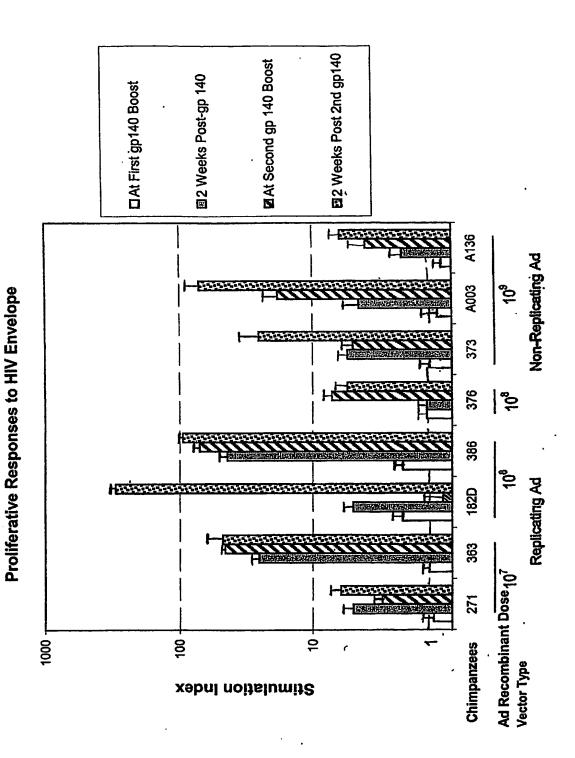
FIGURE 2

Serum Binding Antibody Titers to HIV-1_{SF162} ENV Protein

	Replication-Competent Ad	Sompetent Ad	Replication-Defective Ad	efective Ad
Immunization	107	108	$10^{8}$	$10^8$
Post 1st Ad	. 20	114.11	276.00	46.11
	20	390.91	N/A	72.06
	. 20	33.31		29.51
Post 2 nd Ad	2315.60	4242.53	114	55.57
	14380.44	8251.33	N/A	128.00
	372.87	2181.35		24.13
Post 1st gp140	41175.45	43589.41	906	2675.15
	42411.99	51950.41	N/A	9448.33
	39974.95	36574.05		757.43
Post 2 nd gp140	19789.57	65799.55	14176	105578.03
	32906.06	68333.17	N/A	208905.20
• :	11901.37	63359.86		53357.79

### SUBSTITUTE SHEET (RULE 26)

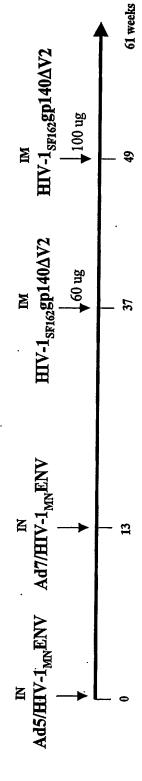
Proliferative responses following Ad-HIVenv recombinant priming and HIV_{SF162} oligomeric gp140∆V2 boosting FIGURE 21



### **SUBSTITUTE SHEET (RULE 26)**

FIGURE 22

## Immunization Regimen and Schedule



IN = intranasal; IM = intramuscular

Replication-c Chimpanzees	competent Ad Vaccine Group Priming Immunization (dose)	Replication-	Replication-defective Ad Vaccine Group
271, 363, A163	Ad5- or Ad7- $\Delta$ E3/HIV $_{MN}$ Env (10 ⁷ pfu)	376, 360	Ad5- or Ad7- ΔΕ1Ε3/ΗΙV _{ΜΝ} Επν (10 ⁸ pfu) Ad5- or Ad7- ΔΕ1Ε3/ΗΙV _{ΜΝ} Επν (10 ⁹ pfu)
182D, 386	Ad5- or Ad7- $\Delta$ E3/HIV $_{MN}$ Env (10 ⁸ pfu)	373, A136, A003	

to gp140 boost in groups primed with Higher titers to gp120 heterologous

replicating Ad-recombinants

P = 0.018).

# Priming with replicating Ad-recombinant results in higher binding antibody titers

FIGURE 23A

Serum Binding Antibody Titers to HIV-1_{SF162} Env Protein

			Higher	to on 140	** vector (
			*		*
2 nd gp140	wk 51	13462	62299	21953	49005
1 st gp140	wk 39	3237	43589	2784	2672
2 nd Ad	wk 15	475	4242	48	99
	Dose	10ر	108	10 ⁸ "	109
	Animal Groups	Replicating Ad	Replicating Ad	Non-replicating Ad	Non-replicating Ad

titers to gp120 homologous 10 boost independent of

(P = 0.0040)

Serum Binding Antibody Titers to  $\mathrm{HIV}\text{-}1_{\mathrm{IIIB}}$  Env Protein

		S _{uq} Ad	1 st gp140	2 nd gp140
Animal Groups	Dose	wk 15	wk 39	wk 51
Replicating Ad	107	268	3794	28360
Replicating Ad	108	89	4021	213307
Non-replicating Ad	108	10	51	10471
Non-replicating Ad	109	22	161	49570

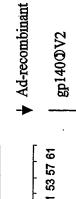
Kinetics of Serum Binding Antibody Titers to HIV-1 $_{\rm IIB}$  Env Protein

FIGURE 23B

1000001

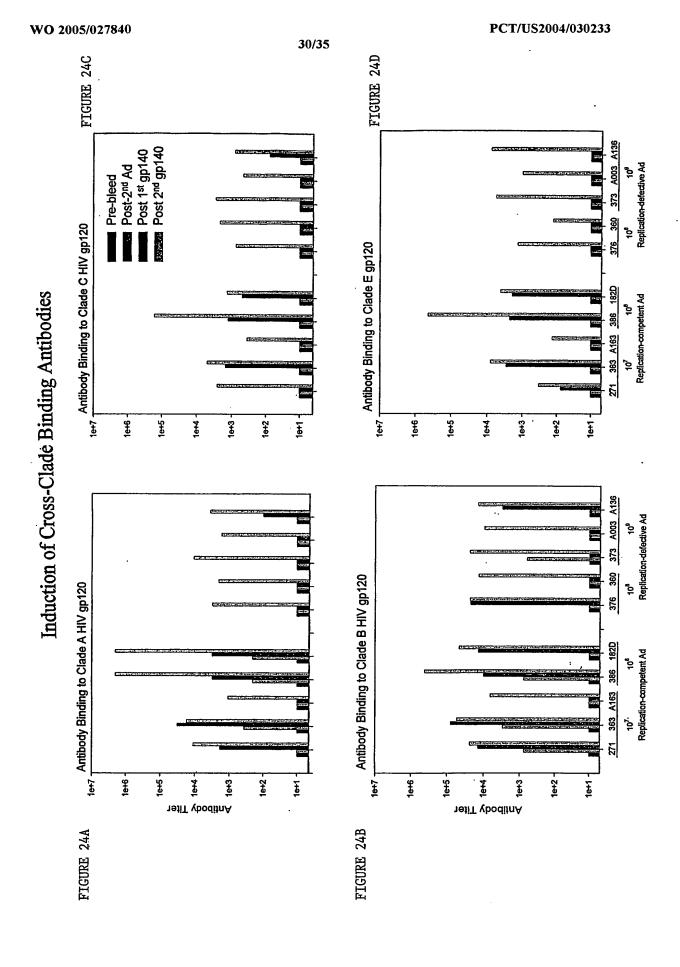
Replicating > non-replicating

P = 0.018



10 +0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+ 10000 <del>1</del>000 <del>1</del>89 Antibody Titer

Weeks Post-Immunization



### Replicating Ad-HIV recombinants are more effective at priming neutralizing antibody responses

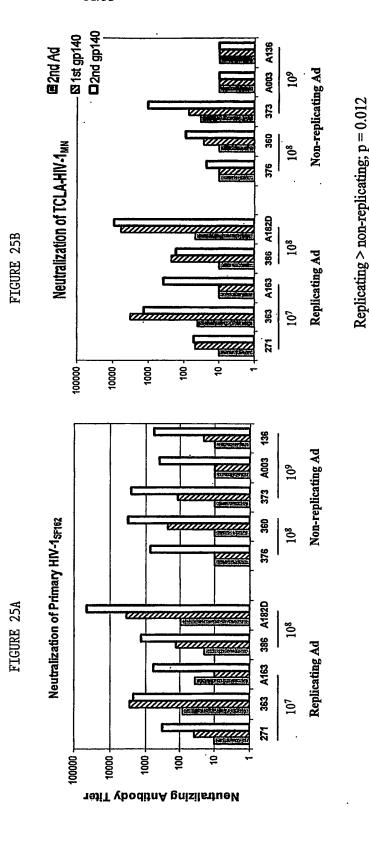


FIGURE 26

Induction of neutralizing antibodies to clade C HIV_{TV-1} following a clade B immunization regimen.

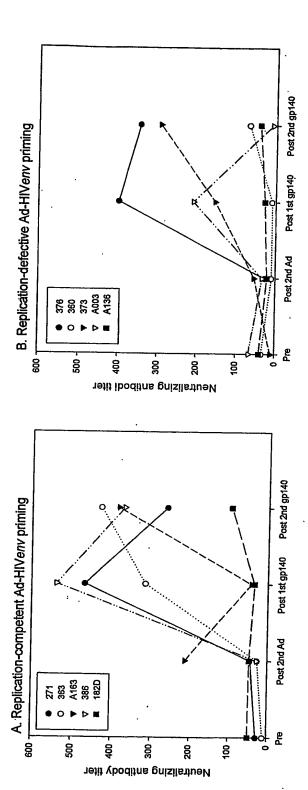
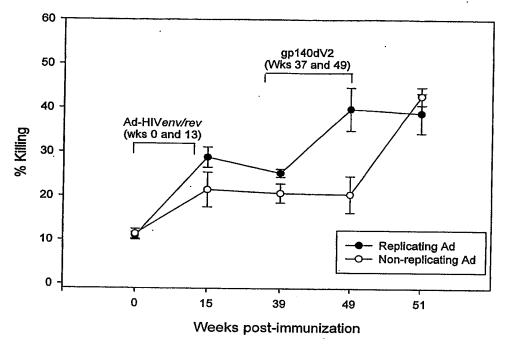


FIGURE 27

Induction of antibody-dependent cellular cytotoxicity (ADCC) activity by an Ad-HIV_{MN}env/rev priming/oligomeric gp140dV2 boosting regimen

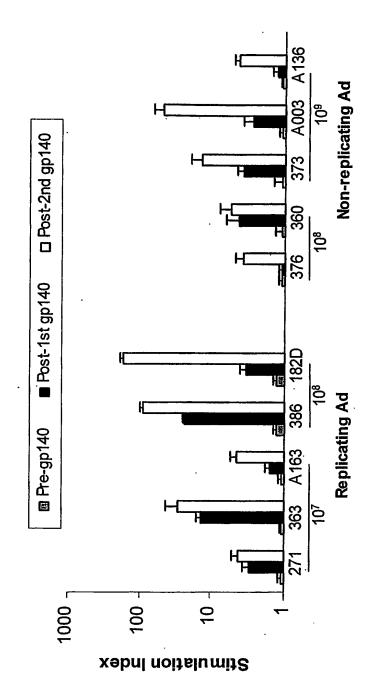


Chimpanzees were immunized intranasally with Ad5-HIV $_{\rm MN}$ env/rev (wk 0) and with Ad7-HIV $_{\rm MN}$ env/rev (wk 13). They were boosted with oligomeric HIV $_{\rm SF162}$  gp140 dV2 in MF-59 adjuvant at weeks 37 and 49. ADCC activity was determined using human PBMC as effectors and HIV $_{\rm IIIB}$  gp120-coated CEM-NK $^{\prime}$  cells at an E:T of 50:1. Ten-fold serum dilutions were evaluated. Positive killing was defined as % killing by the negative control + 3 S.D. (20.4%).

A significant increase in % killing over weeks 15 to 51 was seen in chimpanzees primed with the replication-competent Ad-recombinants compared to the replication-defective Ad-recombinants (P = 0.022).

FIGURE 28

proliferative responses than non-replicating Ad-HIV recombinants Replicating Ad-HIV recombinants are better at priming T-cell



Over all 3 time points, there is a linear trend of replicating > non-replicating, p = 0.010 Post-2nd gp140: Replicating > Non-replicating, p = 0.022

Replicating Ad /HIV_{MN}erv/rev Induces More IFN-y Secreting Cells at the Same or

